

AD A 040561

Report No. FAA-RD-77-57, I

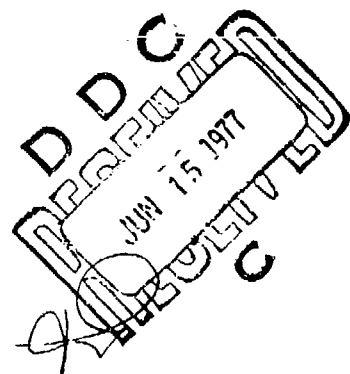
12
B 5

HELICOPTER NOISE MEASUREMENTS
DATA REPORT

Volume I Helicopter Models: Hughes 300-C,
Hughes 500-C, Bell 47-G, Bell 206-L



April 1977
Data Report



Document is available to the U.S. public through
the National Technical Information Service,
Springfield, Virginia 22161.

Prepared for

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Systems Research & Development Service
Washington, D.C. 20590

AD No. _____
DDC FILE COPY

NOTICE

This document is disseminated under the sponsorship of the Department of Transportation in the interest of information exchange. The United States Government assumes no liability for its contents or use thereof.

Technical Report Documentation Page

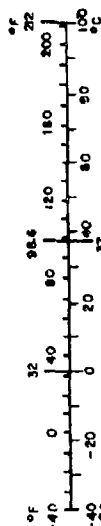
1. Report No. FAA-RD-77-57-1		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Helicopter Noise Measurements Data Report . Volume I. Helicopter Models: Hughes 300-C, Hughes 500-C, Bell 47-G, Bell 206-L.				5. Report Date April 1977	
7. Author Harold C. True and Richard M. Letty				6. Performing Organization Code ARD-550	
9. Performing Organization Name and Address Department of Transportation Federal Aviation Administration Systems Research and Development Service Washington, D.C. 20591				8. Performing Organization Report No.	
12. Sponsoring Agency Name and Address Department of Transportation Federal Aviation Administration Systems Research and Development Service Washington, D.C. 20591				10. Work Unit No. (TRAIS)	
15. Supplementary Notes 12-334p.				11. Contract or Grant No.	
				13. Type of Report and Period Covered Data Report	
14. Sponsoring Agency Code ARD-550					
16. Abstract <p>This data report contains the measured noise levels obtained from an FAA Helicopter Noise Test Program. The purpose of this test program was to provide a data base for a possible helicopter noise certification rule. The noise data presented in this two volume report is primarily intended as a means to disseminate the available information. Only the measured data is presented in this report. All FAA/DOT data analysis and comparisons will be presented in a later report which is scheduled for distribution in July, 1977.</p> <p>The eight helicopters tested during this Helicopter Noise Test Program constituted a wide range of gross weights and included participation from several helicopter manufacturers. The helicopter models used in this test program were the Hughes 300C, Hughes 500C, Bell 47-G, Bell 206-L, Bell 212 (UH-1N), Sikorsky S-61 (SH-3A), Sikorsky S-64 "Skycrane" (CH-54B), and Boeing Vertol "Chinook" CH-47C. Volume I contains the measured noise levels obtained from the first four helicopters while Volume II contains the data from the remaining four.</p> <p>The test procedure for each helicopter consisted of obtaining noise data during hover, level flyover, and approach conditions. The data presented in this report consists of time histories, 1/3-octave band spectra, EPNL, PNL, dBA, dBD and OASPL noise levels.</p>					
17. Key Words Helicopter Noise Levels; Hover; Level Flyover; Approach; Glide Slope; Time Histories; EPNL, PNL, dBA, dBD and OASPL.			18. Distribution Statement This document is available to the public through the National Technical Information Service Springfield, Virginia 22151		
19. Security Classif. (of this report) UNCLASSIFIED		20. Security Classif. (of this page) UNCLASSIFIED		21. No. of Pages 386	
				22. Price	

METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures			
Symbol	When You Know	Multiply by	To Find
LENGTH			
in	inches	2.5	centimeters
ft	feet	30	centimeters
yd	yards	0.9	meters
mi	miles	1.6	kilometers
AREA			
sq in	square inches	6.5	square centimeters
sq ft	square feet	0.09	square meters
sq yd	square yards	0.8	square meters
sq mi	square miles	2.6	square kilometers
	acres	0.4	hectares
MASS (weight)			
oz	ounces	28	grams
lb	pounds	0.45	kilograms
	short tons (2000 lb)	0.9	tonnes
VOLUME			
teaspoon	teaspoons	5	milliliters
tablespoon	tablespoons	15	milliliters
fluid ounce	fluid ounces	30	milliliters
cup	cups	0.24	liters
quart	quarts	0.95	liters
gallon	gallons	3.8	liters
cu ft	cubic feet	0.03	cubic meters
cu yd	cubic yards	0.75	cubic meters
TEMPERATURE (exact)			
°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature
°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature

Approximate Conversions from Metric Measures			
Symbol	When You Know	Multiply by	To Find
LENGTH			
mm	millimeters	0.04	inches
cm	centimeters	0.4	inches
m	meters	3.3	feet
km	kilometers	1.1	miles
		0.6	miles
AREA			
cm ²	square centimeters	0.16	square inches
m ²	square meters	1.2	square yards
km ²	square kilometers	0.4	square miles
ha	hectares (10,000 m ²)	2.5	acres
MASS (weight)			
g	grams	0.035	ounces
kg	kilograms	2.2	pounds
t	tonnes (1000 kg)	1.1	short tons
VOLUME			
ml	milliliters	0.03	fluid ounces
l	liters	2.1	pints
		1.06	quarts
		0.26	gallons
m ³	cubic meters	35	cubic feet
		1.3	cubic yards
TEMPERATURE (exact)			
°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature
°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature

* 1 in = 2.54 (exact). For other exact conversions and more detailed tables, see NBS Metric, Pub. 286, Units of Weights and Measures, Price \$2.25, SO Catalog No. C13.10.286.



ACKNOWLEDGEMENTS

This Helicopter Noise Test Program was conducted by the Federal Aviation Administration (FAA), Washington, D.C. The success of this test program was due to the contributions and participation of many individuals from other government agencies, organizations, private industry and the military. We wish to express our gratitude and thanks to the following participants:

FAA/OFFICE OF ENVIRONMENTAL QUALITY - identification of the program requirement.

FAA/SYSTEMS RESEARCH AND DEVELOPMENT SERVICE, AIRCRAFT SAFETY AND NOISE ABATEMENT DIVISION, ENVIRONMENTAL RESEARCH BRANCH - provided the overall management, test direction and data analysis.

DOT/TRANSPORTATION SYSTEMS CENTER, NOISE MEASUREMENT AND ASSESSMENT LABORATORY - provided the microphone systems and operators, data acquisition and data reduction.

ICAO/INTERNATIONAL CIVIL AVIATION ORGANIZATION - initiated the interest in establishing a possible helicopter noise certification procedure.

HAA/HELICOPTER ASSOCIATION OF AMERICA - supported the FAA effort and encouraged industry participation.

FAA/NATIONAL AVIATION FACILITIES EXPERIMENTAL CENTER (NAFEC) - provided the portable theodolite system and operator.

DULLES INTERNATIONAL AIRPORT/OPERATIONS CHIEF - cooperation in allowing Dulles to be used as a test site.

NASA LANGLEY RESEARCH CENTER/Aircraft Noise Research and Rotocraft Research Divisions - provided support for the test program, one of the test helicopters (S-61) and crew and also allowed their airfield to be used as a test site.

BELL HELICOPTER - arranged for several of their helicopters to be used in the test program (Bell 47G, 206L, and 212).

HUGHES HELICOPTER - arranged for two of their helicopters to be used in the test program (Hughes 300C and 500C).

SIKORSKY HELICOPTER - arranged for two of their helicopters to be used in the test program (Sikorsky S-61 and S-64 "Skycrane").

BOEING VERTOL - arranged for one of their helicopters to be used in the test program (CH-47C "Chinook").

U. S. AIR FORCE/ANDREWS AIR FORCE BASE, MARYLAND - provided the Bell 212 (UH1N) helicopter and crew.

U. S. ARMY/FT. EUSTIS, VIRGINIA - provided the Sikorsky S-64 "Skycrane" (CH-54B) helicopter and crew.

U. S. ARMY/NEW CUMBERLAND, PENNSYLVANIA - provided the Boeing Vertol CH-47C helicopter and crew.

TABLE OF CONTENTS

	<u>PAGE</u>
Acknowledgements	iii
Introduction	1
Test Procedure	2
Microphone Instrumentation and Location	3
Test Sites	5
Helicopter Descriptions	7
Data Reduction System	9
Noise Data Description	11
HELICOPTER NOISE DATA PACKAGES	
VOLUME I	
A- Hughes 300 C	31
B- Hughes 500 C	109
C- Bell 47-G	208
D- Bell 206-L	295
VOLUME II	
E- Bell 212 (UH1N)	380
F- Sikorsky S-61 (SH-3A)	473
G- Sikorsky S-64 "Skycrane" (CH-54B)	555
H- Boeing Vertol "Chinook" (CH-47C)	680

LIST OF FIGURES

	<u>page</u>
Figure 1 - Nomenclature Describing Microphone Location Relative to the Helicopter Heading	16
Figure 2 - Helicopter Approach Procedure	17
Figure 3 - Microphone Arrangement	18
Figure 4 - Dulles Airport Test Site	19
Figure 5 - NASA Langley Research Center Test Site	20
Figure 6 - Table of Helicopter Characteristics	21
Figure 7 - Table of Helicopter Gross Weights	22
Figure 8 - Photograph of Hughes 300 C	23
Figure 9 - Photograph of Hughes 500 C	24
Figure 10 - Photograph of Bell 47-G	25
Figure 11 - Photograph of Bell 206-L	26
Figure 12 - Photograph of Bell 212 (UH1N)	27
Figure 13 - Photograph of Sikorsky S-61 (SH-3A)	28
Figure 14 - Photograph of Sikorsky S-64 "Skycrane" (CH-54B)	29
Figure 15 - Photograph of Boeing Vertol "Chinook" (CH-47C)	30

FEDERAL AVIATION ADMINISTRATION
HELICOPTER NOISE TEST PROGRAM - NOISE DATA PACKAGE

INTRODUCTION

At the request of the Office of Environmental Quality (AEQ), the Environmental Research and Development Branch, ARD-550 conducted a helicopter noise test to obtain noise level data to provide a data base for a possible helicopter noise certification rule. The helicopter industry, the U. S. Air Force and U. S. Army provided the test helicopters and crew while the Federal Aviation Administration/ Department of Transportation (FAA/DOT) provided the test management, data acquisition, reduction, analysis and reporting.

The noise data presented in this two volume report is primarily intended as a means to disseminate the available information to the helicopter manufacturers and other interested organizations. Only the measured data is presented in this report. All FAA/DOT data analysis and comparisons will be presented in a later report which is scheduled for distribution in July, 1977.

TEST PROCEDURE

The test procedure for each helicopter consisted of obtaining noise data during hover, level flyover, and approach conditions. During the hover portion of the test each helicopter was operated with a wheel clearance of about 5 feet and rotated with reference to the microphone array to record the noise levels at each 45° interval around the helicopter. Each angular location was marked so that the pilot could visually maintain the proper heading. Figure 1 describes the nomenclature used to identify the microphone locations in relation to the helicopter's heading. Additional noise data was obtained at a 500 foot hover location. However, because of the windy conditions and the difficulty in keeping the helicopter positioned directly over the microphone array, only a limited amount of data was obtained at this altitude.

During the level flyover portion of the test, each helicopter was flown over the microphone array at an altitude of approximately 500 feet (150 meters) at airspeeds of 90, 100 and 110 percent of the best economical long range cruise speed and at an approach airspeed of about 60 Kts.

Approaches were flown at target glide slopes of 3, 6, and 9 degrees such that the altitude of the helicopter as it passed over the microphone array was held constant at 400 feet. A portable theodolite was

used to establish the approach glideslopes and verbal "fly-up/fly-down" commands were given to the pilot in order to keep the helicopter descending along the proper glideslope. This procedure proved to be satisfactory and the approaches were performed with a high degree of accuracy. Figure 2 schematically describes the operation showing the relative location of the theodolite with respect to the microphone array for each of the different glideslopes. All approaches were flown at a constant airspeed of either 60 mph or 60 Kts (depending on the nomenclature of the onboard airspeed indicator - usually mph for civilian operated helicopters and Kts. for military operated helicopters).

Most approaches and level flyovers were repeated several times to determine the degree of data repeatability achievable. The helicopter airspeed and altitude were monitored directly from the on-board instrumentation while photographic techniques were used to check the helicopters altitude as it passed directly over the microphone array.

MICROPHONE INSTRUMENTATION AND LOCATION

During hover the microphone array consisted of four microphones, two on each side of the hover location at distances of 246 feet (75 meters) and 492 feet (150 meters). For the 500 foot hover, the level flyovers and approaches, the microphone array consisted of both sideline locations of 492 feet and two centerline microphones directly below the flight path of the helicopter. All microphones were mounted four feet above

the ground (per FAR 36 requirements) along a line perpendicular to the flight path. Figure 3 shows the details of the microphone arrangement.

For this helicopter noise test program, four identical measuring systems were used. The microphone systems, data acquisition and data reduction was provided by the DOT Transportation Systems Center (TSC) Noise Measurement and Assessment Laboratory. Each system consisted of a General Radio Model 1962-9601, 1/2 - inch pressure sensitive random incidence electret-condenser microphone with a B&K Model UA-0237 windscreen. In addition, a General Radio Model P42 Microphone Pre-amplifier was used to amplify the output of the microphone and provide impedance matching so that long cables could be used between the microphone/preamplifier combination and the recording system without signal loss or degradation in frequency response. The microphones were mounted four feet above the ground and oriented so that their diaphragm was essentially in a plane perpendicular to the flight path of the aircraft (grazing incidence).

The data was recorded on two, two channel Nagra IV SJ Scientific Tape Recorders using Scotch 888 recording tape. The recorders were operated in a direct mode at a tape speed of 7.5 inches per second. A third track on each recorder was used for voice annotations which consisted of the run number, flight conditions before each run and a verbal marker used to identify the time at which the helicopter passed over the microphone array.

Field calibrations of the microphone/recorder system were performed every hour using a General Radio 1562-A Sound Level Calibrator which generates a 1000 Hz tone at a sound pressure level of 114 dB. In addition, a passive microphone simulator was substituted for the actual microphone to determine the minimum discernable sound pressure level (noise floor) of the system. The dynamic range of the measuring system was approximately 55 dB.

A Climatronics Model EWS Electronic Weather Station was used to continuously monitor and record the temperature, humidity, wind speed and direction. The wind sensors were located at a height of ten feet above the ground while the temperature and humidity sensors were located at a height of five feet.

TEST SITES

The helicopter noise tests were conducted at two different sites. Five of the helicopters were tested at Dulles International Airport while the remaining three were tested at NASA Langley Research Center (LaRC) at Hampton, Virginia.

The test area at Dulles Airport was the old Transpo site north of the terminal and east of runway 1 left--19 right. The test area was bounded on the west by the taxiway to the east of 1L-19R, on the south by the center of the terminal parking lot, on the east by the eastern edge of

the terminal parking lot (north-south portion of the access road), and to the north by Route 606. The noise tests were conducted within these boundaries which provided a test area of approximately 3500 feet wide by 12,000 feet long. The surface of the test area consisted of a combination of decomposing asphalt, dirt and gravel. This surface was somewhat soft for a depth of about 2 inches and then become hard such that markers could only be driven in with some difficulty. Because of this surface, one of the centerline microphones (designated as-centerline west/hard surface) was installed over a hard plywood surface 16 feet long and 4 feet wide. The test site at Dulles Airport is described in Figure 4. All testing took place between the hours of 7:30am and 4:30pm with occasional interference from commercial and general aviation activity at the airport. As a result, it was necessary to abort several runs because of the noise interference generated by the takeoff and landing of these aircraft.

The test site at NASA LaRC was located at the north end of runway 17-35 with the flight path of the helicopters centered along the east edge of the runway. During the 5 foot hover portion of the test, three of the four microphones were located over concrete while the fourth microphone (designated-75m east sideline/soft surface) was located over grass about three inches high. During the 500 foot hover, level flyovers and approaches the main centerline microphone used in most of the data analysis (designated-west centerline/hard surface) was located over concrete while the alternate centerline microphone was over grass. Figure 5 shows the test site in relation to the NASA LaRC

airfield. Intermittant noise interference from military aircraft takeoff and landings from Langley Air Force Base (adjacent to the NASA LaRC) posed some delays.

HELICOPTER DESCRIPTIONS

The eight helicopters tested during this Helicopter Noise Test Program constituted a wide range of gross weights and included participation from several helicopter manufacturers. Helicopter availability was initiated by the manufacturers and obtained from user organizations including private business, the military and company demonstration models. The helicopter models used in the test program were:

<u>HELICOPTER MODEL</u>	<u>MILITARY DESIGNATION</u>	<u>TEST DATE</u>	<u>TEST LOCATION</u>
Hughes 300C	--	10/14/76	Dulles Airport
Hughes 500C	--	10/28/76	NASA Langley
Bell 47G	--	10/5/76	Dulles Airport
Bell 206-L	--	10/14/76	Dulles Airport
Bell 212	UH1N	10/6/76	Dulles Airport
Sikorsky S-61	SH-3A	10/28/76	NASA Langley
Sikorsky S-64 ("Skycrane")	CH-54B	10/28/76	NASA Langley
Boeing Vertol ("Chinook")	CH-47C	10/13/76	Dulles Airport

Figure 6 contains a table of the general characteristics of each helicopter.

Use of the Bell 47G and 206L and the Hughes 300C and 500C were arranged by the area representative of Bell Helicopter and Hughes Helicopter respectively. The Sikorsky S-61 (SH-3A) was provided by the NASA LaRC at Hampton, Virginia. The Bell 212 (UHIN) was provided by the U.S. Air Force from Andrews Air Force Base in Maryland, the Sikorsky S-64 "Skycrane" (CH-54B) was provided by the U. S. Army from Ft. Eustis, Virginia, and the Boeing Vertol (CH-47C) was provided by the U. S. Army from New Cumberland, Pennsylvania. All helicopters were tested at or near their maximum gross weight. In most instances this required the use of additional ballast. For the smaller helicopters this required the use of a few hundred pounds of ballast in the form of lead bars. However, for the larger helicopters the problem of ballast was solved in various ways. The Sikorsky S-61 provided by NASA was heavily instrumented because the helicopter is used for various research projects. The Sikorsky S-64 "Skycrane" carried an army truck for ballast which could be easily detached from the helicopter. As a result it was possible to test the S-64 "Skycrane" both with and without the army truck (a difference of approximately 13,500 lbs.). In the case of the Boeing Vertol CH-47C two empty 600 gallon fuel tanks were mounted inside the fuselage of the helicopter and filled with water to give additional ballast of approximately 10,100 lbs. Figure 7 contains a detailed list of the weight components that comprise each helicopters total gross weight during testing.

All helicopters tested during this program consisted of a single main rotor system except for the Boeing Vertol CH-47C which utilizes a tandem rotor system. Figures 8 through 15 are photographs of each of the helicopters tested.

DATA REDUCTION SYSTEM

The noise data plus the calibration signal that were recorded on the magnetic tape were fed into a modified General Radio 1921 Real Time Analysis System made up of a General Radio 1925 Multifilter and General Radio 1926 Multichannel RMS Detector. The necessary gain adjustments were made in the multifilter using the recorded calibration signals.

The GR-1925 Multifilter consisted of a set of parallel contiguous 1/3 octave filter channels from 25 Hz to 10 KHz plus a standard "A" weighted network, a standard "D" weighted network and an unfiltered channel with a flat frequency response to provide Overall Sound Pressure Levels (OASPL). All outputs from the multifilter were fed into the GR-1926 Detector which sampled and computed the RMS level in dB for each channel for a 1/2-second measurement period. These levels were then converted to digital outputs and were fed into the Wang 720C computer which was programmed to store the digitized data in the Wang 730 Disc System. The analysis system has a dynamic range of 60 dB.

Data stored in the Wang 730 Disc System was processed as follows:

Hover Test -- Data from thirty-eight* (38) 1/2-second integration periods were averaged together on an energy basis and data printed out for the average level, the maximum level and the minimum level versus 1/3 octave frequency bands (25Hz to 10 KHz), plus the OASPL, PNL, PNLT and the "A" and "D" weighted noise levels.

Level Flyover and Approach Tests -- The data stored on the disc was processed according to FAR 36 procedures without corrections for temperature, humidity or aircraft position for each level flyover and approach condition. The processed noise levels consisted of the Effective Perceived Noise Level (EPNL), the Maximum Perceived Noise Level (PNL(M)), the Maximum Tone Corrected Perceived Noise Level (PNLT(M)), the maximum "A" weighted noise level (dBA(M)), the maximum "D" weighted noise level (dBD(M)) and the Maximum Overall Sound Pressure Level (OASPL). In addition, the processed data includes a time history of PNL, PNLT, dBA, dBD and OASPL at 1/2-second time intervals during flyover plus the 1/3 octave band spectra for about ten 1/2-second intervals during the flyover including the spectra at maximum PNL. The 1/3 octave band spectra are time referenced to the helicopters visual overhead position.

NOISE DATA

The data packages containing the noise level measurements obtained during this Helicopter Noise Test Program are presented in this and the accompanying volume:

<u>HELICOPTER MODEL</u>	<u>VOLUME</u>	<u>DATA PACKAGE</u>	<u>TEST DATE</u>	<u>TEST SITE</u>
Hughes 300C	I	A	10/14/76	Dulles Airport
Hughes 500C	I	B	10/28/76	NASA Langley
Bell 47G	I	C	10/5/76	Dulles Airport
Bell 206L	I	D	10/14/76	Dulles Airport
Bell 212 (UHIN)	II	E	10/6/76	Dulles Airport
Sikorsky S-61 (SH-3A)	II	F	10/28/76	NASA Langley
Sikorsky S-64 (CH-54B "Skycrane")	II	G	10/28/76	NASA Langley
Boeing Vertol (CH-47C "Chinook")	II	H	10/13/76	Dulles Airport

Because of the limitations of time and the large amount of data recorded, not all of the measured data from the four microphone systems has been reduced. However, a good representative sampling of the data has been reduced and is presented in these data packages. Each of the eight data packages has been arranged in the following format:

SECTION I - Run List

This section lists the runs which have been reduced along with any general comments about the data.

SECTION II - Ground and Flight Log Data

This section contains a summary of the helicopter operational data from the ground and flight logs for each run. It lists the run number and time for each run, the target test conditions, the actual test conditions taken from the on-board instrumentation, periodic ground weather conditions and any comments which might apply to each run. This section also contains the maximum dBA noise levels obtained from an on-line metering system. For the larger helicopters (S-61, S-64 and CH-47C) whose gross weights during testing were greatly affected by their rate of fuel consumption, an additional table has been inserted which provides a log of the total gross weight as a function of time.

SECTION III - Meteorological Data

This section lists the temperature, barometric pressure, relative humidity, wind speed and wind direction at periodic time intervals during the test.

SECTION IV - Helicopter Level Flyover and Approach Noise Data

This section contains the EPNL levels and the maximum dBA, dBD, PNL, PNLT and OASPL noise levels for selected runs calculated according to FAR 36 procedures without corrections for temperature, humidity or aircraft position. In some instances where it was impossible to obtain the 10 dB down points because of the noise

floor of the data acquisition system, no EPNL levels are calculated.

Defintion of *he tabulated data are as follows:

Event -- Test run number

EPNL -- Effective Perceived Noise Level

dB(A)(M) -- Maximum "A" weighted level

dB(D)(M) -- Maximum "D" weighted level

OASPL(M) -- Maximum Overall Sound Pressure Level

PNL(M) -- Maximum Perceived Noise Level

PNLT(M) -- Maximum Tone Corrected Perceived Noise Level

DUR(P) -- period between 10dB down points on PNLT time history
(in seconds)

DUR(A) -- period between 10dB down points on "A" weighted time
history (in seconds)

LEQ -- Equivalent Noise Level for single event flyby (energy
mean, averaged over period of DUR(A))

TC -- Tone Correction (tones below 500 Hz excluded)

SECTION V - Time Histories

This section contains the tabulated 1/2-second interval time histories of dB(A), dB(D), OASPL, PNL and PNLT for each of the selected microphones over the period of level flyover or approach as determined by the 10dB down points of the PNLT time history. Each numerical indices represents a 1/2-second interval of time. The time at which the helicopter passes directly over the microphone array is indicated in the left hand margin (by the initials O.H.--Over Head).

SECTION VI - 1/3 Octave Band Spectra--Flyover and Approach

This section contains the 1/3 octave band spectra data for flyover and approach for as many as ten different 1/2-second intervals of time both before and after the helicopter passes overhead. The point at which the helicopter was observed as being directly over the microphone array is indicated as zero time. The time (in seconds) before the helicopter reaches the overhead position is indicated as negative and the time after passing overhead is indicated as positive. All times are relative to the helicopter's overhead position. The numbers 17 through 40 represent the 24 1/3-octave bands (50-10,000 Hz). In addition, the corresponding dBA, dBD, OASPL, PNL and PNLT noise levels are included.

SECTION VII - 1/3 Octave Band Spectra - Five Foot Hover

This section contains the 1/3 octave band spectra data for the 5 foot hover test conditions averaged over a 19 second time interval consisting of thirty-eight 1/2-second integration periods. Data is printed out for the average level, the maximum level, the minimum level, the arithmetic average and the standard deviation for each of the 27 1/3-octave bands from 25 Hz to 10 KHz. In addition, the corresponding dBA, dBD, OASPL, PNL and PNLT noise levels are included. The angular location found in the title following the run number (event number) indicates the heli-

copter heading. Using the hover directivity nomenclature described in Figure 1, the correct microphone angular location relative to the helicopter are determined and indicated in the right hand margin.

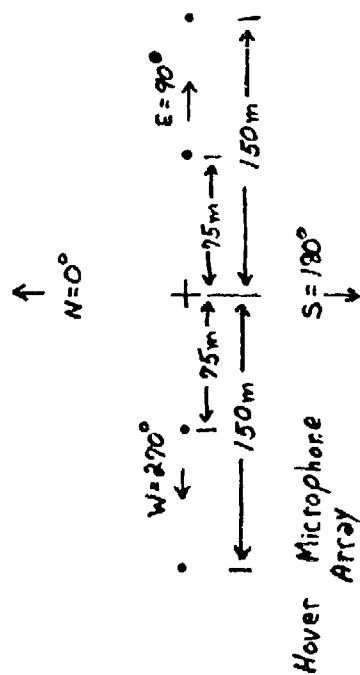
SECTION VIII - Maximum dBA Noise Levels

This section contains the maximum dBA noise levels for all runs and all microphone locations. This data was obtained prior to the computerized output format and constituted our initial quick-look analysis. The recorded noise data was run through a noise level meter with the maximum RMS dBA noise level for each run visually noted and transcribed in the enclosed table. For the hover data, the angular location described by the helicopter operation denotes the helicopter's heading. The microphone location relative to the helicopter is expressed in parenthesis.

SECTION IX - Selected dBA Time Histories - Graphic Plots

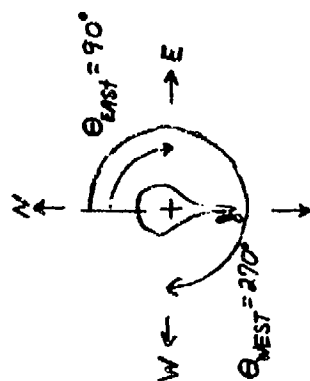
This section contains graphic time histories of selected data runs for hover, level flyover and approach. The triangular mark on the time histories indicates the point at which the helicopter passes over the microphone array.

Figure 1 5 FOOT HOVER DIRECTIVITY NOMENCLATURE

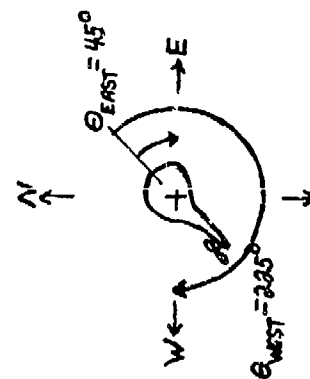


θ_{mic} IS FROM NOSE CLOCKWISE TO MICROPHONE

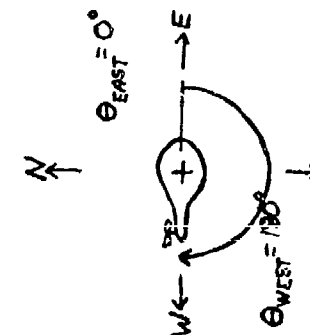
Helicopter Heading	0°	45°	90°	135°	180°	225°	270°	315°
WEST Mic (θ_{west})	270°	225°	180°	135°	90°	45°	0°	315°
EAST Mic (θ_{east})	90°	45°	0°	315°	270°	225°	180°	135°



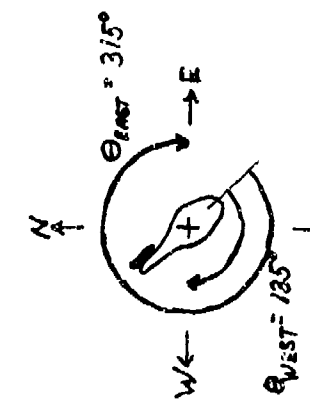
0° HEADING



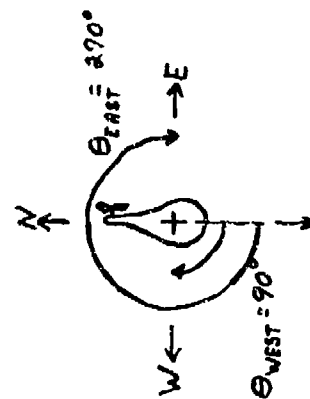
45° HEADING



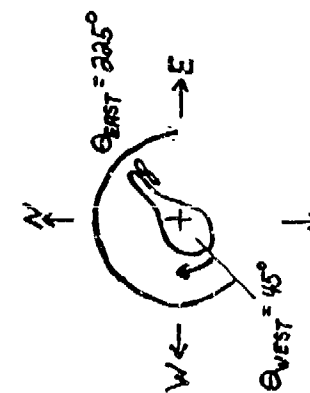
90° HEADING



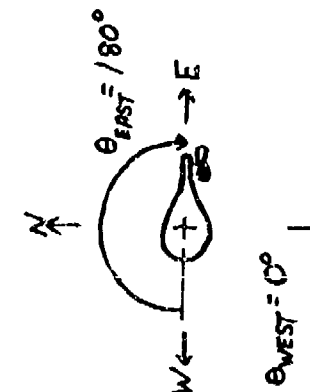
135° HEADING



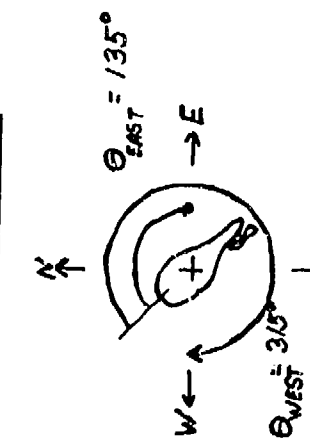
180° HEADING



225° HEADING



270° HEADING



315° HEADING

APPROACH PROCEDURE

Figure 2

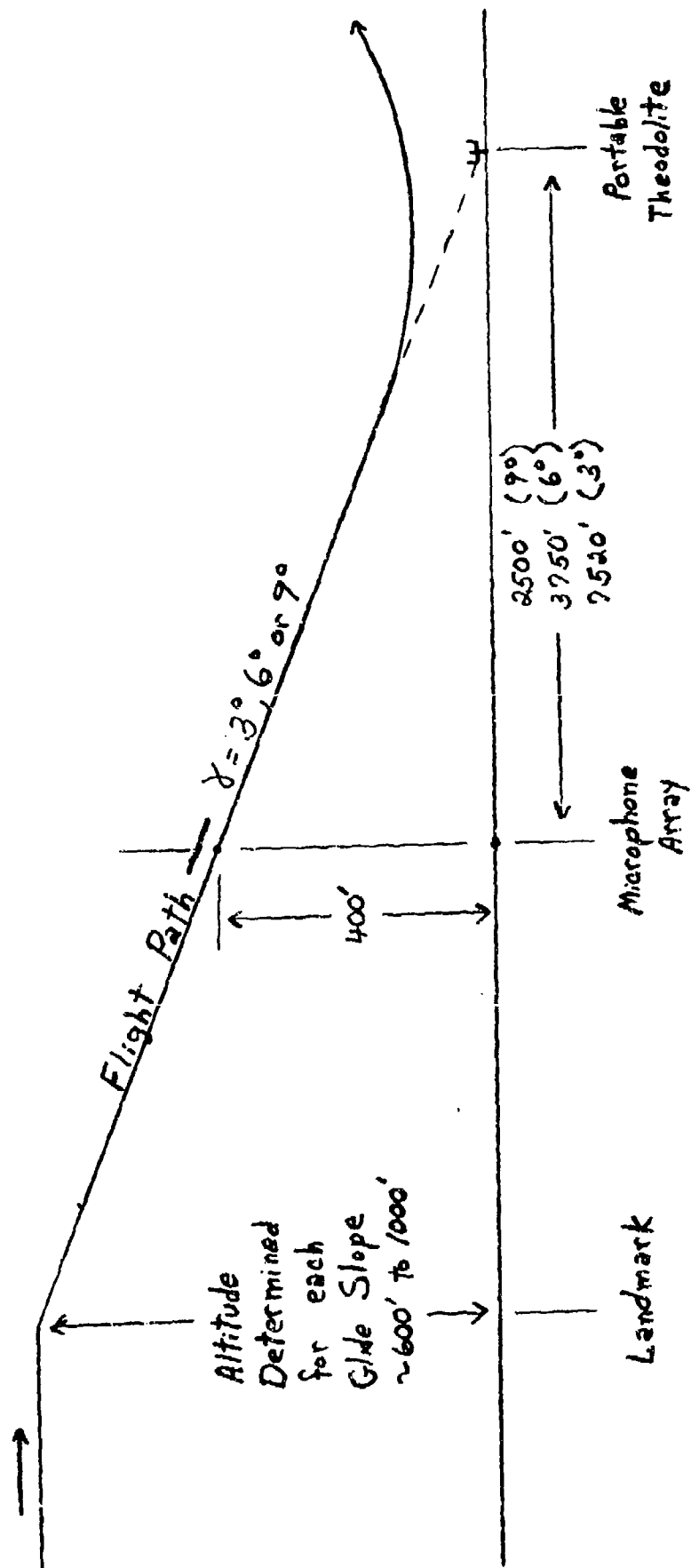
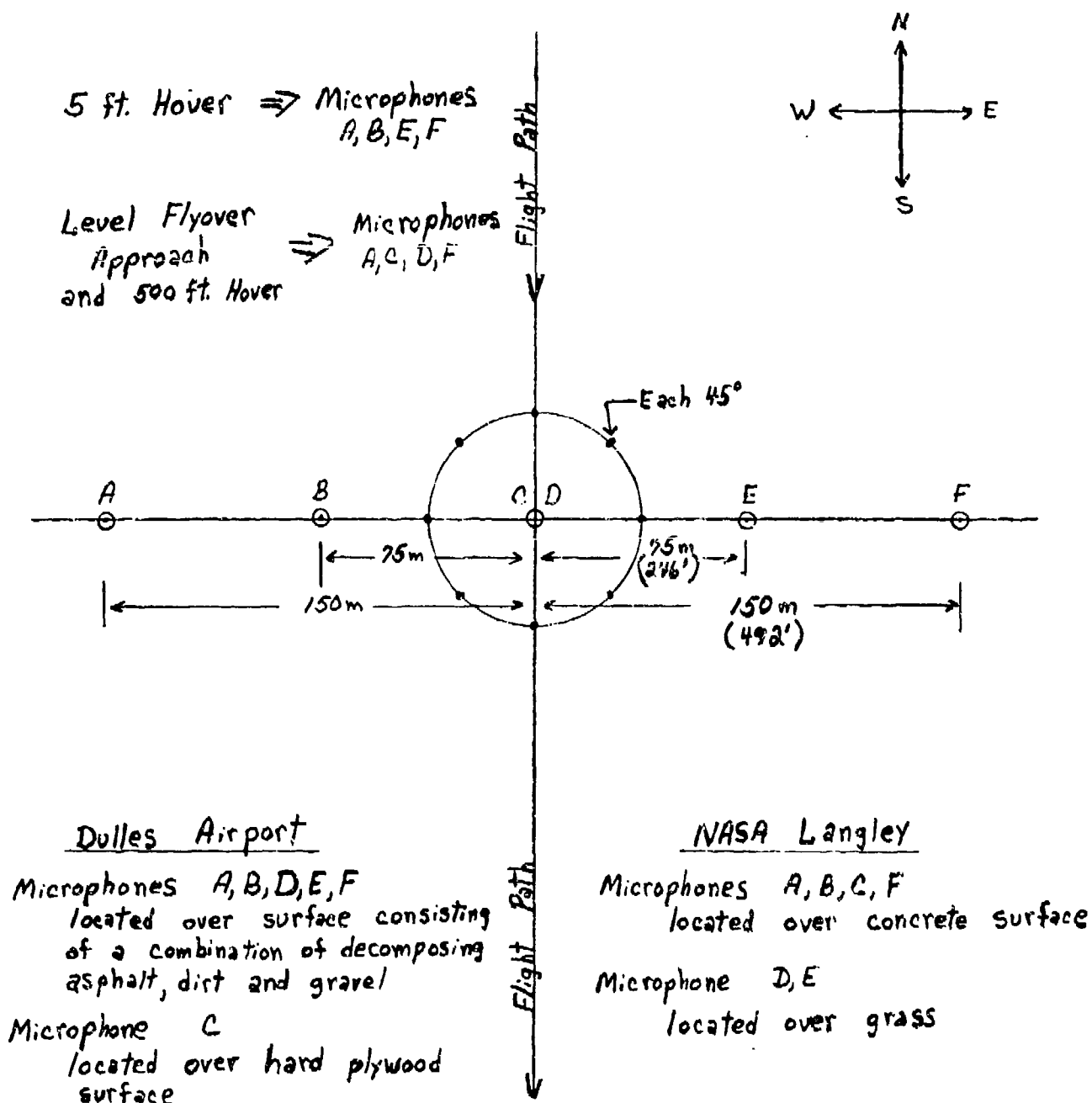
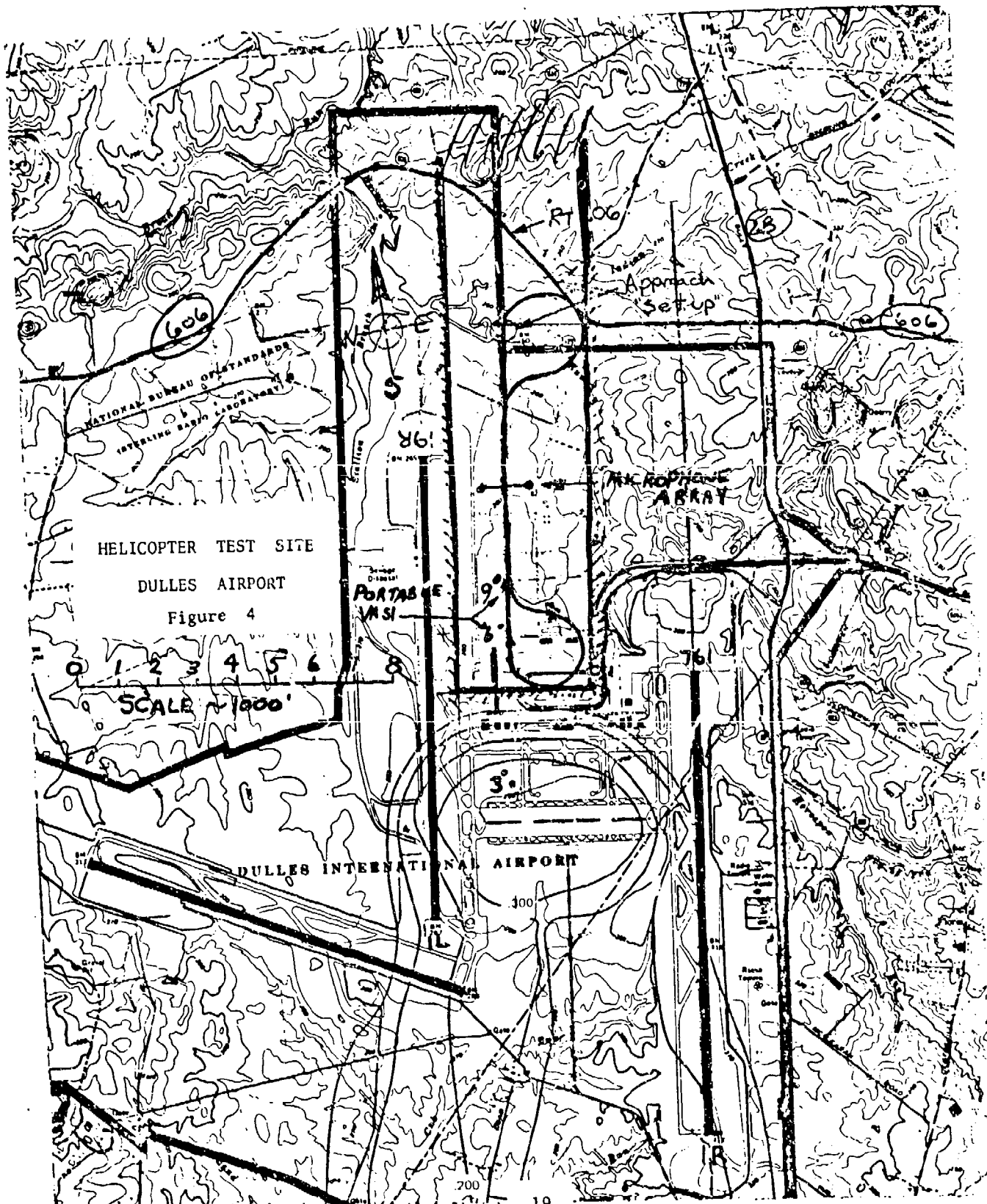


Figure 3

HELICOPTER NOISE TEST

MICROPHONE ARRAY





HELICOPTER TEST SITE

DULLES AIRPORT

Figure 4

SCALE 1:1000

DULLES INTERNATIONAL AIRPORT

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

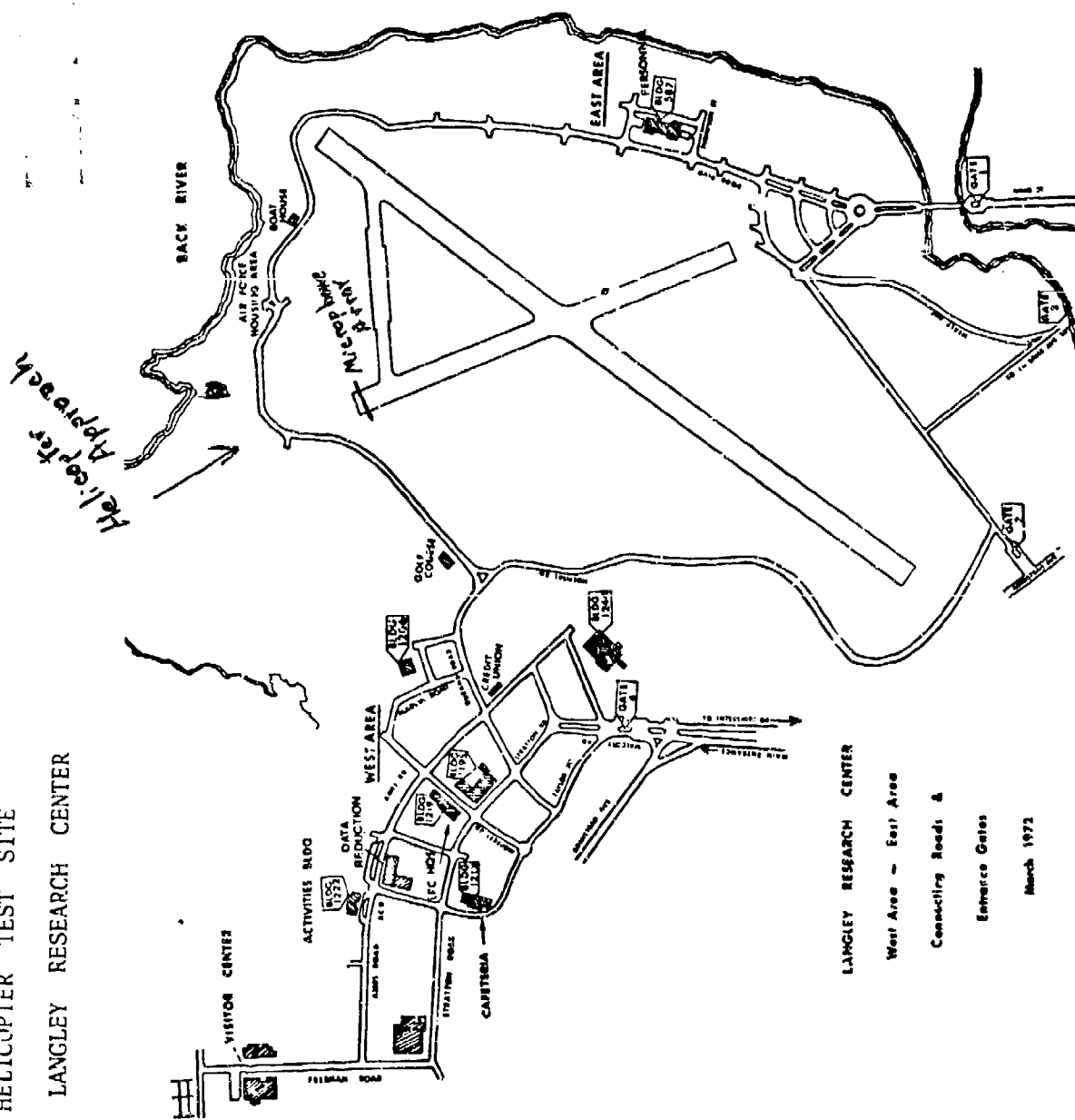


Figure 5

Figure 6

HELICOPTER CHARACTERISTICS

MANUFACTURER	HUGHES		HUGHES		BELL	
MODEL	300C		500C		47G	
MILITARY DESIGNATION	--		--		--	
POWER PLANT	AVCO-Lycoming H10-360-D1A		Allison 250-C20A		AVCO-Lycoming TVO-435-G1A	
TYPE	4-Cylinder Reciprocating Engine		Turboshaft		6-Cylinder Reciprocating Engine	
RATED OUTPUT AT SEA LEVEL	190 shp at 3200 RPM		400 shp at 6000 RPM		220 shp at 3200 RPM	
EMPTY WEIGHT (lbs)	1025		1086		1892	
MAX. T.O. GROSS WEIGHT (lbs)	1900		2550		2950	
FUEL CAPACITY (gallons)	19		61.5		57	
MAXIMUM AIR SPEED (mph)	105 (91 Kts)		152 (132 Kts)		105 (91 Kts)	
ECONOMIC CRUISE SPEED (mph)	100 (87 Kts)		143 (124 Kts)		83 (72 Kts)	
MAXIMUM RANGE (miles)	255		377		250	
FUSELAGE LENGTH (ft.)	30.92		23		31.58	
PASSENGER CAPACITY	3		6		3	
	MAIN ROTOR	TAIL ROTOR	MAIN ROTOR	TAIL ROTOR	MAIN ROTOR	TAIL ROTOR
NUMBER OF BLADES	3	2	4	2	2	2
DIAMETER (ft.)	26.83	4.25	26.33	4.25	37.125	5.83
AREA DISK (sq.ft.)	565.5	14.2	544.6	14.2	1083	26.8
MAX. GROSS WT./AREA DISK (lb/sq.ft.)	3.36	--	4.7	--	2.72	--
CHOPD LENGTH (inches)	6.75	4.86	6.75	4.86	11	4.94
AREA PER BLADE (sq.ft.)	7.55	.86	7.41	.85	17.14	1.20
BLADE LOADING (lb./sq.ft.)	1.12	--	1.17	--	1.36	--
ROTOR RPM	471	3094	484	3110	370	2160
BLADE PASSAGE FREQ. (Hz)	24	103	32	104	12	72
TIP SPEED (ft./sec)	661	690	667	692	719	658

Figure 6

HELICOPTER CHARACTERISTICS

MANUFACTURER	BELL		BELL		SIKORSKY	
MODEL	206L		212		S-61	
MILITARY DESIGNATION	--		UHIN		SH-3A	
POWER PLANT	Allison 250-C20B		Pratt & Whitney PT6T-3 "Twin-Pac"		2-Gen. Electric T58-GE-8B	
TYPE	Turboshaft		Two PT6 Turboshaft Engines		Turboshaft	
RATED OUTPUT AT SEA LEVEL	420 shp at 6000 RPM		1800 shp at 6600 RPM		1250 shp at 19,500 RPM (ea. eng.)	
EMPTY WEIGHT (lbs.)	1894		6000		11,865	
MAX. T.O. GROSS WEIGHT (lbs.)	3900		10,000		20,500	
FUEL CAPACITY (gallons)	98		215		700	
MAXIMUM AIR SPEED (mph)	150 (130 Kts)		121 (105 Kts)		166 (144 Kts)	
ECONOMIC CRUISE SPEED (mph)	136 (118 Kts)		100 (87 Kts)		136 (118 Kts)	
MAXIMUM RANGE (miles)	370		296		625	
FUSELAGE LENGTH (ft.)	33.9		41.9		54.75	
PASSENGER CAPACITY	7		15		15	
	MAIN ROTOR	TAIL ROTOR	MAIN ROTOR	TAIL ROTOR	MAIN ROTOR	TAIL ROTOR
NUMBER OF BLADES	2	2	2	2	5	5
DIAMETER (ft.)	37	5.17	48	8.5	62	10.33
AREA DISK (sq. ft.)	1074.7	20.97	1809	56.7	3019	83.9
MAX. GROSS WT./AREA DISK (lb./sq.ft.)	3.63	--	5.53	--	6.79	--
CHORD LENGTH (inches)	13	5.25	21	11.5	18.25	5.7
AREA PER BLADE (sq. ft)	18.05	1.13	42	4.07	44.54	2.46
BLADE LOADING (lb./sq. ft.)	1.82	--	2.76	--	1.36	--
ROTOR RPM	394	2550	324	1662	203	1136
BLADE PASSAGE FREQ. (Hz)	13	85	11	55	17	95
TIP SPEED (ft./sec.)	763	690	814	740	659	614

Figure 6

HELICOPTER CHARACTERISTICS

	HELICOPTER CHARACTERISTICS		
	MAIN ROTOR	TAIL ROTOR	TANDEM ROTOR
MANUFACTURER	SIKORSKY		BOEING VERTOL
MODEL	S-64 "Skycrane"		114 "Chinook"
MILITARY DESIGNATION	CH-54B		CH-47C
POWER PLANT	2-Pratt & Whitney JFTD-12A-5A		2-AVCO-Lycoming T55-L-11
TYPE	Turboshaft		Turboshaft
RATED OUTPUT AT SEA LEVEL	4,800 shp (each eng.)		3750 shp at 15,680 RPM (ea. eng.)
EMPTY WEIGHT (lbs.)	19,234		20,378
MAX. T.O. GROSS WEIGHT (lbs)	47,000		45,000
FUEL CAPACITY (gallons)	880		1129
MAXIMUM AIR SPEED (mph)	127 (110 Kts)		190 (165 Kts)
ECONOMIC CRUISE SPEED (mph)	100 (95 Kts)		158 (137 Kts)
MAXIMUM RANGE (miles)	253		230
FUSELAGE LENGTH (ft.)	70.25		51
PASSENGER CAPACITY	4		33-44
NUMBER OF BLADES	6	4	3
DIAMETER (ft.)	72	16	60
AREA DISK (sq. ft.)	4070	201	2826/each
MAX. GROSS WT./AREA DISK (lb/sq.ft.)	10.3	--	7.96
CHORD LENGTH (inches)	26	15.4	25.25
AREA PER BLADE (sq.ft.)	78	10.27	63.1
BLADE LOADING (lb./sq.ft.)	1.71	--	1.33
ROTOR RPM	186	852	245
BLADE PASSAGE FREQ. (Hz)	18.6	57	3 Blades/Rotor => 12 6 Blades/Helicopter => 24
TIP SPEED (ft./sec.)	700	714	755

Figure 7

HELICOPTER GROSS WEIGHT COMPARISONS

HELICOPTER MODEL	EMPTY WEIGHT	FUEL WEIGHT	BALLAST	INSTRUMENTATION AND CREW	MAXIMUM T.O. GROSS WEIGHT	GROSS WEIGHT DURING TEST
HUGHES 300 C	1025	130	200	450	1900	1800
HUGHES 500 C	1086	400	0	364	2550	1850
BELL 47-G	1892	370	200	388	2950	2850
22 BELL 206-L	1894	640	450	435	3900	3420
BELL 212 (UH1N)	6000	1400	400	1800	10,000	9600
SIKORSKY S-61 (SH-3A)	12,224	3000	0	3500	19,000	18,725
SIKORSKY S-64 (CH-54B) "SKYCRANE"	19,234	6600	13,500 (Army Truck)	3600	47,000	42,900
BOEING VERTOL (CH-47C) "CHINOOK"	20,400	6900	10,100 (1200 gal. water)	3600	45,000	41,000

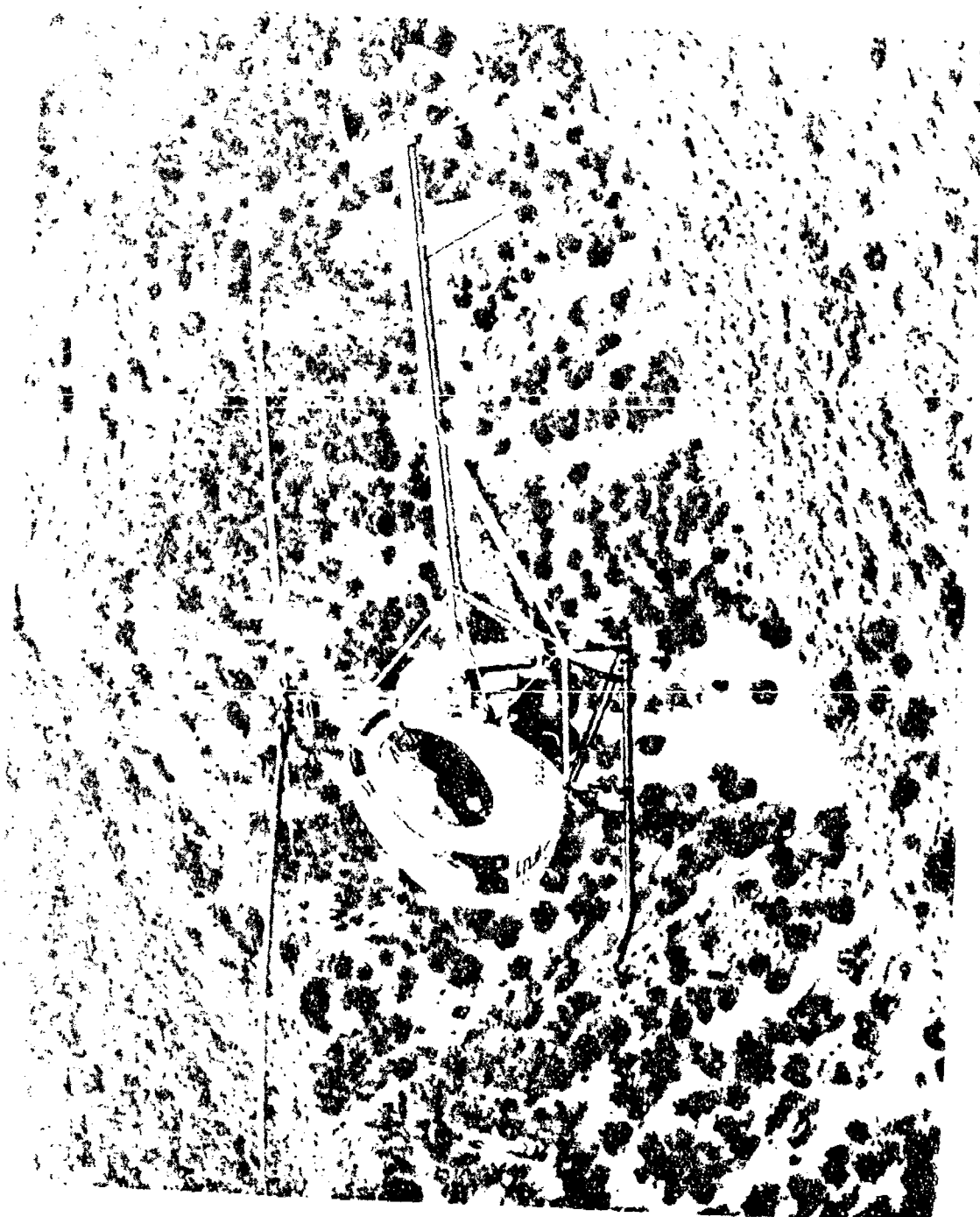


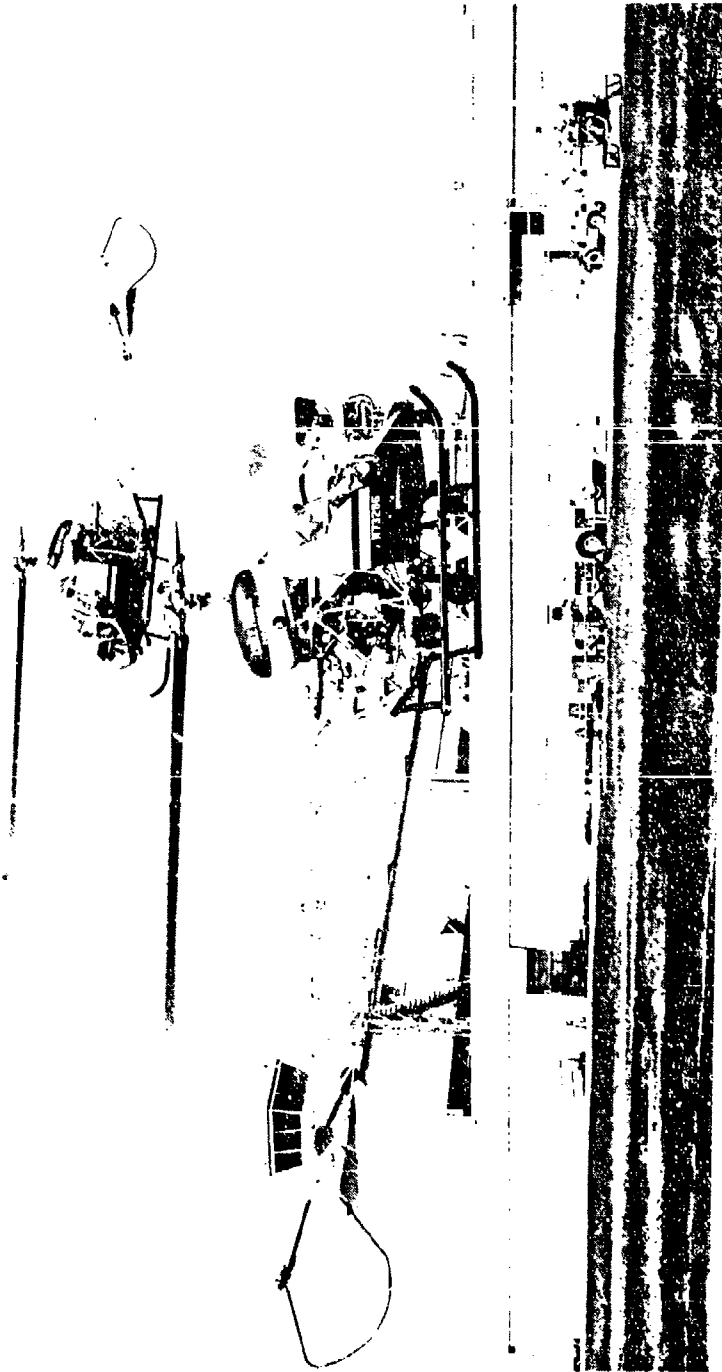
Figure 8

HUGHES 300 C



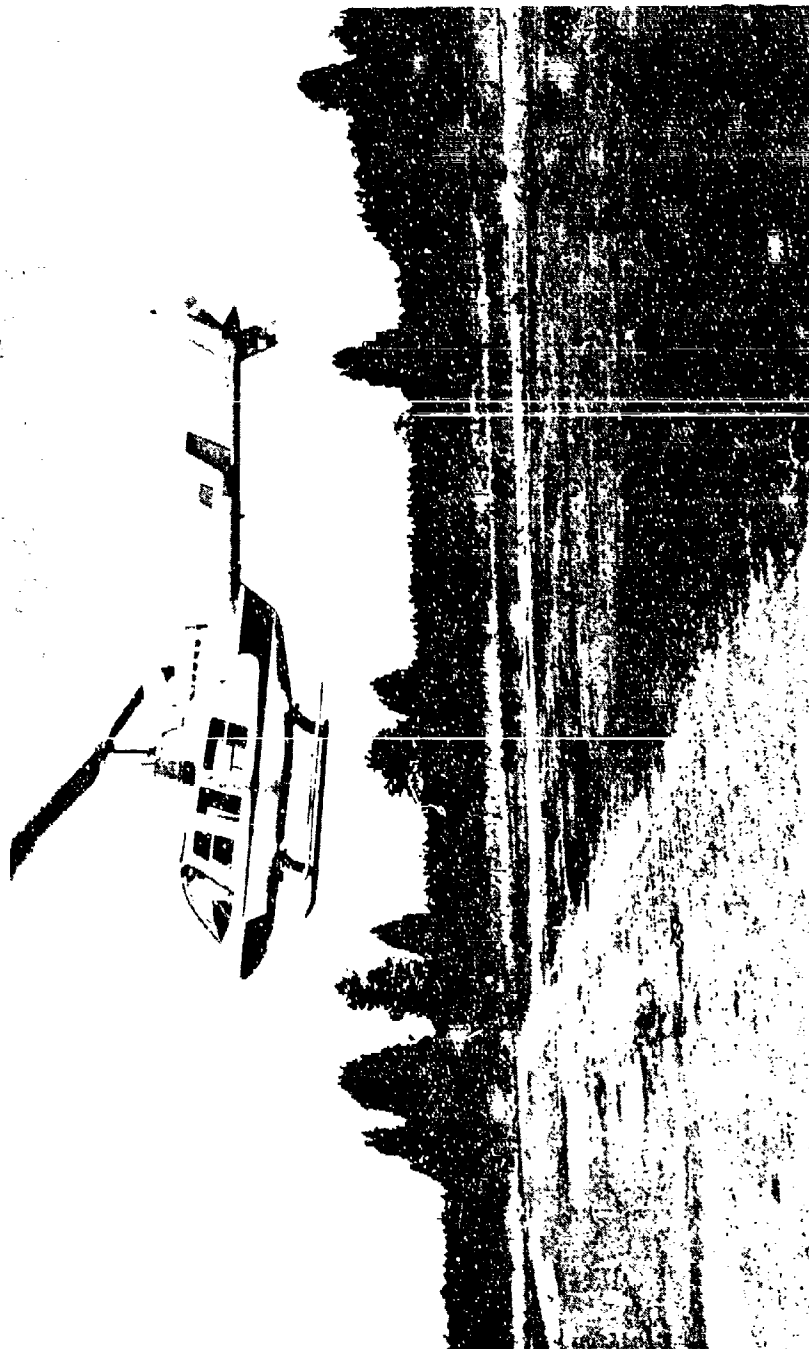
HUGHES 500 C

Figure 9



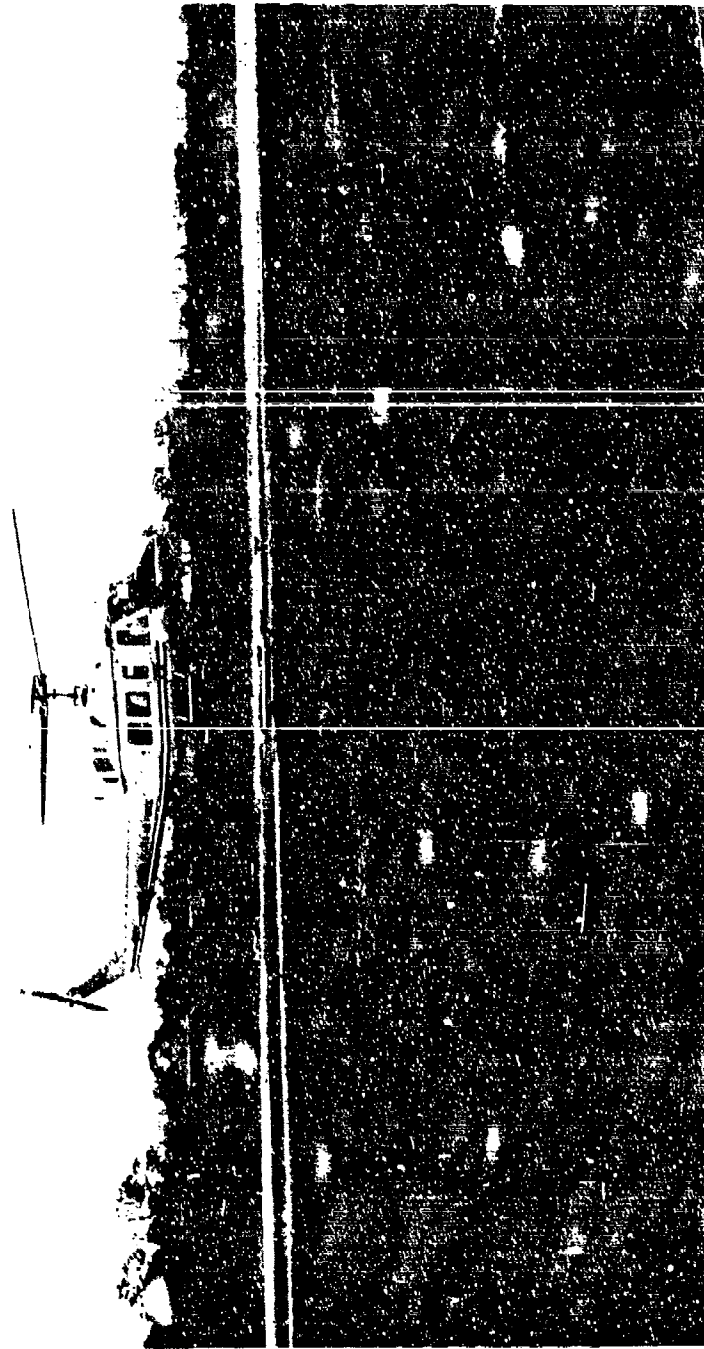
BELL 47-G

Figure 10



BELL 206-L

Figure 11



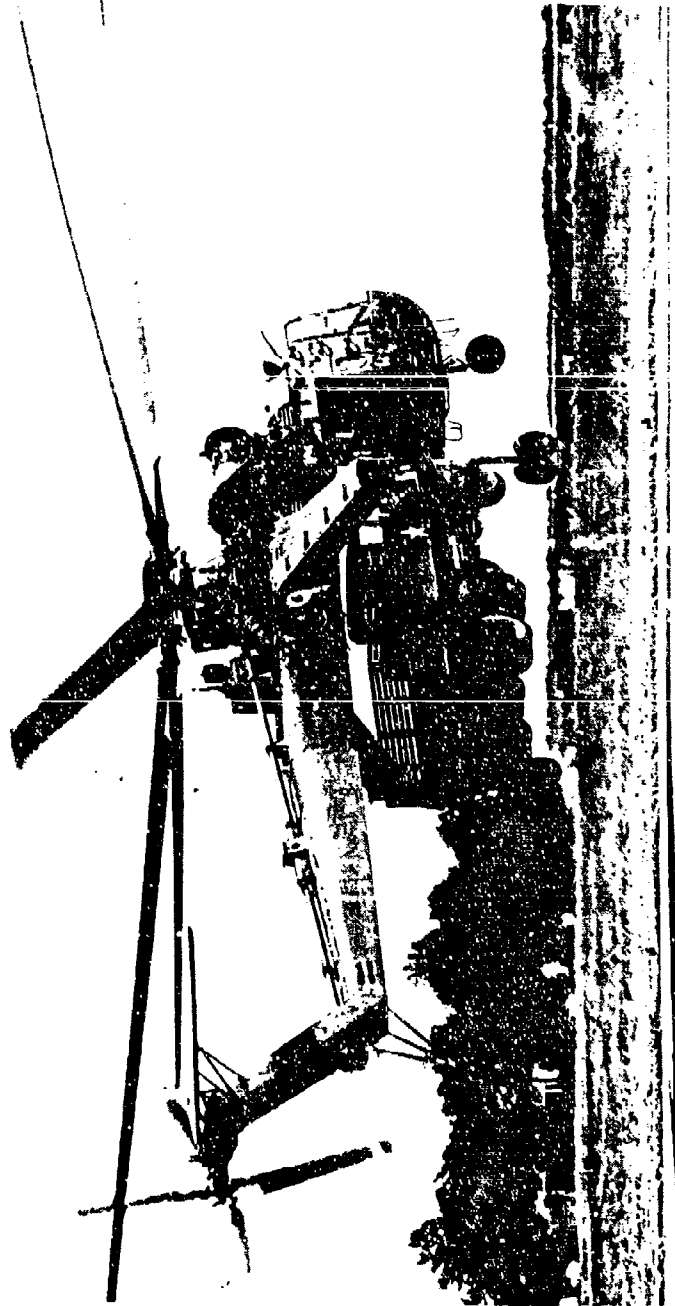
BELL 212 (UH1N)

Figure 12

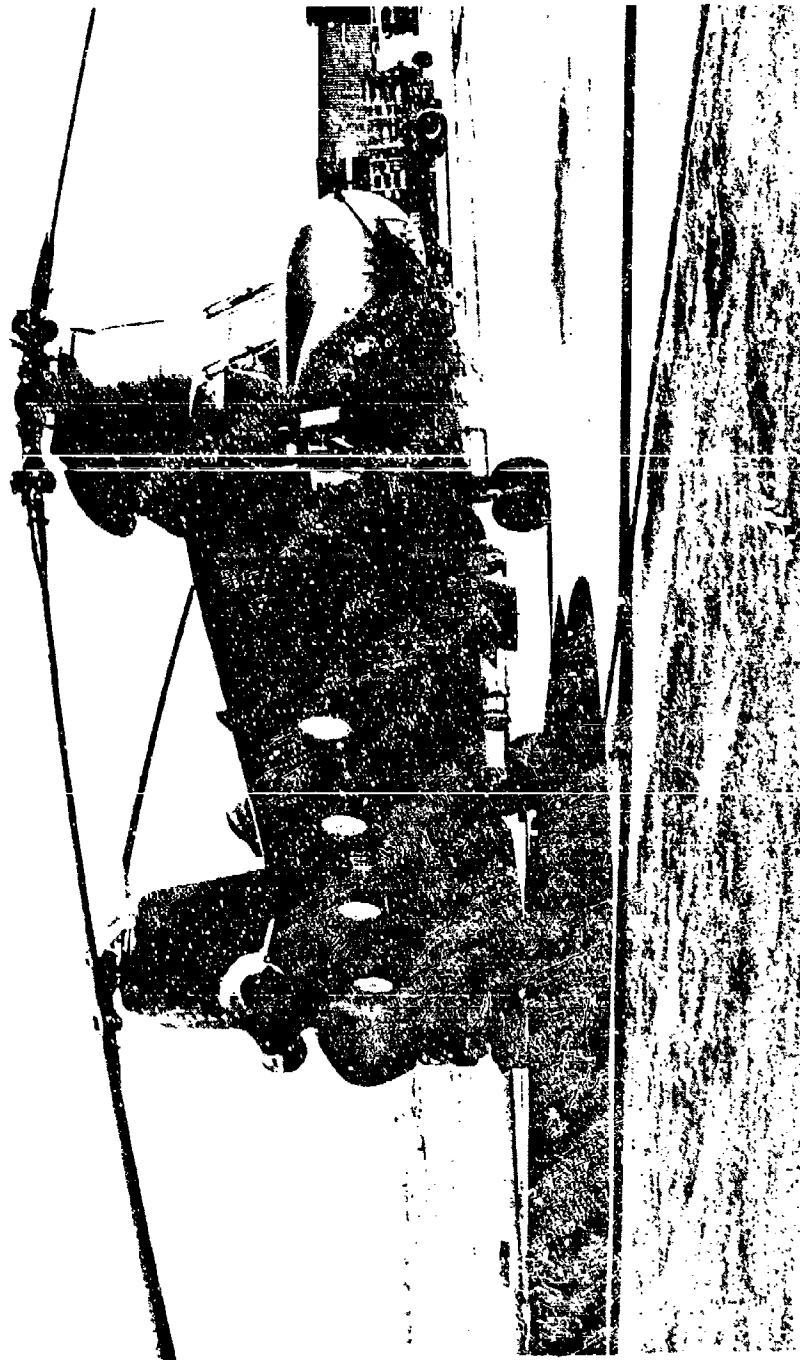


SIKORSKY S-61 (SH-2A)

Figure 13



SIKORSKY S-64 "SKYCRANE" (CH-54B)



BOEING VERTOL "CHINOOK" (CH-47G)

Figure 15

DATA TABLE A

HUGHES 300C

TEST DATE: 10-14-76

TEST SITE: DULLES AIRPORT

SECTION - A	CONTENT	PAGE #
I	RUN LIST	31
II	GROUND AND FLIGHT LOG DATA	34
III	METEOROLOGICAL DATA	36
IV	LEVEL FLYOVER AND APPROACH NOISE DATA	37
V	TIME HISTORIES	39
VI	1/3-OCTAVE BAND SPECTRA--FLYOVER AND APPROACH	59
VII	1/3-OCTAVE BAND SPECTRA--5 FOOT HOVER	79
VIII	MAXIMUM dBA NOISE LEVEL (ALL RUNS)	98
IX	SELECTED dBA TIME HISTORIES--GRAPHIC PLOTS	101

THE NOISE LEVELS PRESENTED IN SECTIONS IV, V AND VI
 HAVE BEEN TABULATED FOR THE SELECTED RUNS AND MICROPHONE
 LOCATIONS INDICATED ON THE FOLLOWING PAGE.

TABLE A-I

LIST OF RUNS SELECTED FOR ANALYSIS

RUN#	TEST CONDITION	MICROPHONE LOCATION			
		WEST		EAST	
		150 m SIDELINE	CENTER LINE	CENTER LINE	150m SIDELINE
26	Level Flyover 60 mph			X	
27	↓			X	
28				X	
29				X	
30				X	
31		X		X	X
33		X		X	X
34		X		X	X
35				X	
36				X	
37				X	
40	↓ 90 mph			X	
44	6° Approach 60 mph			X	
58	9° Approach 60 mph			X	
	Microphone Locations	Over Transpo site surface	Over plywood	Over Transpo site surface	Over Transpo site surface
		32			

GENERAL COMMENTS

- o No data was taken for the 3° approach condition.
- o Weather conditions were windy with gusts in the 10-20 mph range.
- o Because of the wind noise and the low helicopter noise levels of the Hughes 300 C it was difficult to obtain the 10 dB down points necessary to calculate the Effective Perceived Noise Levels (EPNL) for the level flyover conditions.

TABLE A-17

Helicopter Model: Hughes 300 C

Registration

Number:

Ground and Flight Log Date

Test Date: Oct. 14, 1976

Run	Time	Target Conditions		Actual Conditions					Ground Weather (10 ft.)				Comments				
		Type	Velocity	Altitude over Mica.	dBA *	Heading	Air Speed	Rate of Descent	Mp or Torque	Altitude over Mica.	RPM	OAT		Temp	RH	Wind Speed	Wind Direction
1	8:52	Hover	0	5 ft.	76.0	0° N	0	0	25"	5 ft.	3300	60°F					
2	8:53					82.0	45° E			24"							
3	8:54					86.5	90° E			26"							
4	8:54.5					85.5	135°			26"							
5	8:55					87.0	180° S			25"							
6	8:56					77.0	225°			25"							
7	8:57					78.5	270° W			25"							
8	8:58					78.4	315°			24"							
9	8:59					74.6	0° N			23"							
10	9:00					80.0	45° E			25"							
11	9:01					83.0	90° E			24"							
12	9:02					86.0	135°			24"							
14-25	8:11	abn L Tested at Hover Conditions.															
26	9:38	level Flyover	6 mph	500 ft.	70.0	S	60 mph	0	20"	500 ft.	3000						
27	9:40				71.0	N			20"								
28	9:42				72.0	S			20"								
29	9:44		69 mph		74.0	N	69 mph		21"								
30	9:45				68.0	S			21"								
31	9:46		76 mph		68.0	N	75 mph		21"								
32	9:47				—	S			21"								
33	9:49				68.0	S			21"								
34	9:50				69.0	N			21"								
35	9:52				68.5	S			23"								
36	9:54				69.0	N			23"								
37	9:55				67.7	S			24"								
Avgd Run 59-76	1-58	Sound Level Meter Located at 250 ft. from hover location at an angle of 335°.															
		SLM Located 180 ft. North of hover location.															

TABLE A-II

Helicopter Model: Hughes 300 c

Registration

Number:

Test Date: Oct. 14, 1976

[illegible]

TABLE A-III

METEOROLOGICAL DATA
DUJLES INTERNATIONAL AIRPORT
OCTOBER 14, 1976

TIME (Hours)	TEMP. (°F)	BAR. PRESS. (mm Hg)	REL. HUM. (%)	WIND SPEED (mph)	WIND DIRECTION (Degrees)	REMARKS
0845	52		38	6-10	310	
0900	53	757	37	6-12	320	Sky-Clear
0915	54		36	10-12	310	
0930	54		34	8-14	310	
0945	55		34	6-16	315	
1000	55		34	7-18	330	
1015	55		34	10-22	320	
1030	56		34	12-15	310	
1045	56		34	12-21	320	
1100	56		34	8-20	330	
1115	56		34	10-18	330	
1130	56		34	8-15	320	
1145	57		34	8-15	310	
1200	58		33	10-23	310	
1215	57		33	8-16	320	
1230	57		32	10-18	320	
1245	58		32	10-18	330	
1300	59		32	12-15	340	
1315	59		31	10-14	320	
1330	60		30	10-13	290	

TABLE A-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

HUGHES 300 C

OCTOBER 14 1976

MICROPHONE OFFSET 150 METERS WEST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
31	---	66.9	71.0	74.8	79.0	79.3	---	---	---	1.6
33	---	67.6	73.9	85.7	79.9	79.9	62.1	32.0	---	.0
34	---	67.4	71.5	75.8	79.1	79.1	---	---	---	.0

MICROPHONE OFFSET 150 METERS EAST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
31	---	67.3	71.4	80.8	78.8	79.1	---	---	---	1.0
33	---	68.4	72.1	79.0	79.6	79.6	64.5	26.5	---	.0
34	---	66.1	70.1	80.2	77.8	77.8	---	---	---	.0

--- INSUFFICIENT DATA - 10DB DOWN POINTS NOT DISCERNIBLE ABOVE
AMBIENT LEVELS

TABLE A-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

HUGHES 300 C

OCTOBER 14 1976

CENTERLINE MICROPHONE (SOFT SITE)
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
26	---	68.5	73.9	79.5	83.1	83.1	---	---	---	.0
27	---	69.0	74.4	77.1	83.5	83.5	---	---	---	.0
28	---	70.3	74.4	78.8	81.8	81.8	65.0	27.0	---	.0
29	---	69.7	74.1	76.4	81.5	81.5	64.8	23.0	---	.0
30	---	66.6	71.4	73.6	79.6	80.0	62.6	30.0	---	1.1
31	---	67.2	72.2	75.7	80.0	80.0	---	---	---	.0
33	---	69.2	73.5	77.8	81.8	81.8	65.0	22.5	---	.0
34	---	70.1	75.3	77.9	82.9	82.9	66.1	22.0	---	.0
35	---	66.9	71.4	75.7	79.3	79.3	63.3	26.0	---	.0
36	---	66.7	71.6	74.4	79.4	80.5	62.7	28.0	---	1.1
37	---	66.6	71.6	76.4	79.3	79.3	61.9	29.5	---	.0
40	---	68.3	73.2	76.7	80.7	80.7	62.9	31.0	---	.0
44	82.2	71.1	75.9	79.1	82.9	82.9	65.9	20.5	24.5	.0
58	84.6	76.2	80.7	81.7	87.6	88.3	72.0	11.5	13.5	1.0

--- INSUFFICIENT DATA - 10DB DOWN POINTS NOT DISCERNIBLE ABOVE
AMBIENT LEVELS

NO DATA - CENTERLINE MICROPHONE (HARD SITE)

ORIGINAL COPY

TABLE A-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 31, 76 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	52.2	62.2	70.3	71.8	71.8	19.6	10.0
4	51.7	61.3	67.4	71.7	71.7	20.0	9.6
7	53.1	61.4	65.1	72.0	72.0	18.9	8.3
10	56.0	63.9	69.0	73.0	73.0	17.0	7.9
13	60.3	66.7	71.7	75.0	75.0	14.7	6.4
16	58.3	65.6	70.2	74.2	74.2	15.9	7.3
19	58.6	66.1	69.5	74.7	74.7	16.1	7.5
22	55.0	63.8	68.4	72.7	72.7	17.7	8.8
25	55.6	63.5	71.1	72.7	72.7	17.1	7.9
28	54.2	62.6	67.9	72.3	72.3	18.1	8.4
31	61.4	66.2	70.4	74.9	75.9	13.5	4.8
34	56.2	63.3	67.4	72.7	72.7	16.5	7.1
37	59.4	65.2	69.4	74.0	74.0	14.6	5.8
40	55.3	62.9	67.6	72.4	72.4	17.1	7.6
43	61.9	66.5	69.4	75.5	76.7	13.6	4.6
46	63.2	67.6	70.4	76.2	77.9	13.0	4.4
49	64.2	69.1	73.3	77.1	78.3	12.9	4.9
52	66.7	70.5	73.4	78.7	78.7	12.0	3.8
55	65.4	69.9	73.2	77.9	77.9	12.5	4.5
58	66.1	70.7	74.8	78.8	78.8	12.7	4.6
OH 61 → 63	66.1	70.0	74.1	77.8	77.8	11.7	3.9
64	66.9	70.4	73.6	77.6	77.6	10.7	3.5
67	66.5	70.1	73.2	77.7	77.7	11.2	3.6
70	65.0	69.4	73.8	76.9	76.9	11.9	4.4
73	63.8	68.5	71.7	76.4	76.4	12.6	4.7
76	64.7	68.8	71.3	76.7	76.7	12.0	4.1
79	65.0	68.8	71.2	76.4	76.4	11.4	3.8
82	63.0	67.5	71.5	75.1	75.1	12.1	4.5
85	60.8	65.5	71.6	73.7	75.1	12.9	4.7
88	59.7	64.8	70.6	73.3	73.3	13.6	5.1
91	57.1	63.7	71.2	72.7	72.7	15.6	6.6
94	59.1	63.9	70.3	73.1	74.6	14.0	4.8

TABLE A-IV

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 33, 76 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	55.7	63.8	72.7	72.9	72.9	17.2	8.1
3	54.2	63.4	72.5	72.5	72.5	18.3	9.2
5	54.5	63.2	71.1	72.4	72.4	17.9	8.7
7	57.5	64.2	70.0	73.2	73.2	15.7	6.7
9	57.8	64.6	70.9	73.3	73.3	15.5	6.8
11	57.0	63.9	71.3	73.1	73.1	16.1	6.9
13	57.3	64.0	71.7	73.1	73.1	15.8	6.7
15	56.3	64.4	72.9	73.0	73.0	16.7	8.1
17	56.4	64.8	73.9	73.3	73.3	16.9	8.4
19	59.3	66.6	76.6	74.6	74.6	15.3	7.3
21	59.4	66.7	76.2	74.7	74.7	15.3	7.3
23	57.7	65.5	74.1	73.6	73.6	15.9	7.8
25	60.1	66.4	73.1	74.9	74.9	14.8	6.3
27	58.6	66.0	75.6	74.1	74.1	15.5	7.4
29	57.4	65.5	74.7	73.6	73.6	16.2	8.1
31	58.9	66.8	76.5	74.7	74.7	15.8	7.9
33	60.3	67.8	78.1	75.3	75.3	15.0	7.5
35	62.3	68.3	76.0	76.4	76.4	14.1	6.0
37	64.2	69.7	76.2	77.5	77.5	13.3	5.5
39	66.4	72.3	80.9	79.1	79.1	12.7	5.9
OH → 41	66.5	73.9	85.3	79.9	79.9	13.4	7.4
43	66.4	73.2	84.5	79.7	79.7	13.3	6.8
45	67.2	72.7	81.4	79.5	79.5	12.3	5.5
47	67.4	72.5	80.6	79.6	79.6	12.2	5.1
49	64.8	70.2	79.2	77.6	77.6	12.8	5.4
51	63.3	68.5	76.9	76.4	76.4	13.1	5.2
53	62.8	68.1	76.6	75.8	75.8	13.0	5.3
55	61.8	67.8	77.5	75.2	75.2	13.4	6.0
57	60.3	66.6	76.5	74.5	75.6	14.2	6.3
59	60.0	65.4	73.1	73.8	74.8	13.8	5.4
61	56.8	65.4	76.8	73.4	73.4	16.6	8.6
63	56.9	64.9	75.7	73.4	73.4	16.5	8.0
65	55.0	63.1	71.8	72.5	72.5	17.5	8.1
67	59.6	65.3	75.1	73.8	75.1	14.2	5.7
69	59.7	64.9	72.6	73.5	73.5	13.8	5.2
71	56.8	63.8	74.1	72.8	72.8	16.0	7.0
73	56.1	63.6	74.3	72.6	72.6	16.5	7.5
75	55.2	64.5	76.7	72.5	72.5	17.3	9.3
77	53.8	63.2	74.6	72.1	72.1	18.3	9.4

TABLE A-II

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 34. 76 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	51.4	59.2	63.7	68.4	68.4	17.0	7.8
4	59.1	66.1	72.5	74.1	74.1	15.0	7.0
7	59.2	66.6	74.1	75.0	75.0	15.8	7.4
10	54.8	63.4	71.1	72.4	72.4	17.6	8.6
13	54.5	63.2	70.3	72.4	72.4	17.9	8.7
16	57.3	64.8	71.2	73.6	73.6	16.3	7.5
19	56.8	64.4	69.3	73.1	73.1	16.3	7.6
22	60.6	66.8	75.1	74.8	74.8	14.2	6.2
25	58.3	65.1	73.1	73.3	73.3	15.0	6.8
28	62.8	67.4	72.1	75.6	75.6	12.8	4.6
31	62.7	67.5	74.2	75.8	75.8	13.1	4.8
34	62.9	68.0	72.4	76.1	76.1	13.2	5.1
37	62.9	67.5	72.5	76.0	76.0	13.1	4.6
40	64.3	69.3	72.7	77.8	79.0	13.5	5.0
43	64.2	69.2	72.5	77.4	77.4	13.2	5.0
46	65.1	69.5	71.8	77.2	77.2	12.1	4.4
49	64.8	69.1	72.5	76.9	76.9	12.1	4.3
OH → 52	67.4	71.5	72.6	79.1	79.1	11.7	4.1
55	66.5	70.9	71.9	78.4	78.4	11.9	4.4
58	63.4	68.5	71.0	76.2	76.2	12.8	5.1
61	64.4	69.0	70.7	77.0	77.0	12.6	4.6
64	64.1	68.8	70.0	76.4	76.4	12.3	4.7
67	62.6	67.4	70.2	75.7	75.7	13.1	4.8
70	62.4	67.1	69.2	75.3	75.3	12.9	4.7
73	59.5	64.8	68.3	73.5	73.5	14.0	5.3
76	60.6	65.8	67.6	73.9	74.9	13.3	5.2
79	60.1	64.8	67.4	73.4	74.5	13.3	4.7
82	58.4	64.4	68.7	73.2	73.2	14.8	6.0
85	58.0	64.0	67.1	72.9	72.9	14.9	6.0
88	58.5	63.5	64.8	72.9	72.9	14.4	5.0

TABLE A-IV

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 31, 76 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	54.3	63.2	77.0	72.0	72.0	17.7	8.9
3	54.9	63.0	73.5	72.3	72.3	17.4	8.1
5	56.2	63.5	73.5	72.6	73.6	16.4	7.3
7	57.1	64.5	77.4	72.8	74.1	15.7	7.4
9	59.9	65.8	77.7	74.0	74.0	14.1	5.9
11	57.4	64.1	75.2	72.9	72.9	15.5	6.7
13	62.4	66.7	73.5	75.5	77.2	13.1	4.3
15	62.7	67.2	72.6	75.7	77.3	13.0	4.5
17	62.5	67.1	73.7	75.8	75.8	13.3	4.6
19	63.6	68.2	76.7	76.7	77.8	13.1	4.6
21	62.4	67.5	77.2	75.5	76.9	13.1	5.1
23	63.0	68.5	78.4	76.0	77.1	13.0	5.5
25	63.1	68.1	78.6	76.0	76.0	12.9	5.0
27	64.1	68.7	77.3	76.3	76.3	12.2	4.6
29	66.2	70.1	78.7	77.8	77.8	11.6	3.9
31	66.2	70.2	80.0	77.8	77.8	11.6	4.0
33	67.1	70.7	80.4	78.4	78.4	11.3	3.6
OH → 35	66.2	70.3	78.3	77.9	77.9	11.7	4.1
37	66.5	70.5	77.8	78.1	79.1	11.6	4.0
39	67.1	71.0	79.3	78.5	78.5	11.4	3.9
41	66.1	70.6	78.5	78.1	78.1	12.0	4.5
43	64.4	69.0	77.6	76.7	76.7	12.3	4.6
45	65.5	69.9	77.0	77.5	77.5	12.0	4.4
47	65.8	70.1	77.4	77.9	77.9	12.1	4.3
49	65.9	70.5	78.3	78.1	78.1	12.2	4.6
51	64.7	69.6	78.8	77.1	77.1	12.4	4.9
53	63.2	68.6	78.1	76.3	77.6	13.1	5.4
55	63.8	69.1	77.5	77.0	77.0	13.2	5.3
57	63.7	69.2	77.5	77.0	77.0	13.3	5.5
59	60.1	66.7	78.3	74.3	75.7	14.2	6.6
61	59.5	66.7	80.8	74.0	74.0	14.5	7.2
63	58.3	64.9	78.4	73.3	73.3	15.0	6.6
65	58.9	64.2	74.3	73.1	74.8	14.2	5.3
67	59.3	64.7	75.3	73.2	75.1	13.9	5.4
69	57.5	64.6	78.4	72.9	72.9	15.4	7.1

TABLE A-II

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 33, 76 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	56.9	64.2	75.1	73.0	74.5	16.1	7.3
3	57.9	64.1	72.2	73.1	74.4	15.2	6.2
5	58.1	63.9	72.0	73.2	74.5	15.1	5.8
7	58.3	63.6	71.4	73.1	74.9	14.8	5.3
9	59.0	63.8	72.0	73.2	74.9	14.2	4.8
11	58.1	63.9	73.9	73.0	74.2	14.9	5.8
13	58.3	63.9	73.2	73.3	73.3	15.0	5.6
15	61.7	65.6	70.5	74.4	75.5	12.7	3.9
17	58.9	64.6	71.2	73.6	75.0	14.7	5.7
19	58.6	65.0	73.3	73.7	74.7	15.1	6.4
21	63.9	67.4	73.7	76.1	77.6	12.2	3.5
23	64.1	68.1	74.2	76.2	76.2	12.1	4.0
25	65.2	68.9	75.3	76.8	76.8	11.6	3.7
27	63.5	67.8	77.1	75.6	76.6	12.1	4.3
29	63.9	68.4	79.0	76.2	76.2	12.3	4.5
31	65.9	69.6	77.9	77.5	77.5	11.6	3.7
33	66.1	69.6	75.3	77.7	78.7	11.6	3.5
35	66.7	70.3	74.6	78.2	78.2	11.5	3.6
37	65.1	69.7	74.8	77.9	77.9	12.8	4.6
39	67.1	71.2	74.4	78.7	78.7	11.6	4.1
OW → 41	68.2	72.1	75.6	79.5	79.5	11.3	3.9
43	67.9	72.1	74.6	79.4	79.4	11.5	4.2
45	67.4	71.4	73.5	78.9	78.9	11.5	4.0
47	66.9	71.1	74.6	78.5	78.5	11.6	4.2
49	65.2	69.5	75.3	77.5	77.5	12.3	4.3
51	63.9	68.6	72.8	76.7	76.7	12.8	4.7
53	63.3	68.1	72.8	76.5	76.5	13.2	4.8
55	60.5	66.2	73.9	74.4	75.5	13.9	5.7
57	58.5	65.0	73.6	73.5	73.5	15.0	6.5
59	58.5	64.8	73.6	73.6	73.6	15.1	6.3
61	57.7	64.6	73.2	73.3	74.4	15.6	6.9
63	57.8	63.9	70.7	73.2	73.2	15.4	6.1
65	55.8	62.4	69.6	72.5	72.5	16.7	6.6

TABLE A-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 34, 76 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	52.4	60.8	66.6	71.7	71.7	19.3	8.4
3	52.1	61.2	67.4	71.8	71.8	19.7	9.1
5	54.7	62.3	68.0	72.3	72.3	17.6	7.6
7	56.5	63.4	68.1	72.7	72.7	16.2	6.9
9	56.6	63.6	68.9	72.9	72.9	16.3	7.0
11	57.4	64.1	69.6	73.2	73.2	15.8	6.7
13	59.5	64.6	71.6	73.5	73.5	14.0	5.1
15	57.8	64.2	71.6	73.2	73.2	15.4	6.4
17	61.5	66.4	71.8	75.1	76.4	13.6	4.9
19	61.2	66.1	71.0	75.1	75.1	13.9	4.9
21	60.7	65.5	70.2	74.5	74.5	13.8	4.8
23	60.6	65.7	72.4	74.1	75.7	13.5	5.1
25	63.1	67.6	72.6	75.9	75.9	12.8	4.5
27	61.5	66.7	73.5	75.0	76.0	13.5	5.2
29	63.0	67.2	73.3	75.8	76.8	12.8	4.2
31	63.1	67.4	73.5	75.8	75.8	12.7	4.3
33	60.9	66.1	73.5	74.4	74.4	13.5	5.2
35	61.8	66.5	75.7	74.7	74.7	12.9	4.7
37	63.9	68.3	77.1	76.0	76.0	12.1	4.4
39	64.8	69.4	77.7	76.9	76.9	12.1	4.6
41	64.4	68.9	77.0	76.5	76.5	12.1	4.5
43	64.3	68.9	76.2	76.8	76.8	12.5	4.6
OH → 45	64.9	69.8	76.1	77.5	77.5	12.6	4.9
47	65.6	70.0	76.8	77.8	77.8	12.2	4.4
49	66.0	70.0	76.6	77.6	77.6	11.6	4.0
51	63.5	68.1	75.5	76.3	76.3	12.8	4.6
53	62.7	67.5	74.8	75.7	75.7	13.0	4.8
55	63.0	68.0	73.8	76.1	76.1	13.1	5.0
57	63.8	68.2	72.3	76.4	76.4	12.6	4.4
59	62.2	67.1	73.2	75.3	75.3	13.1	4.9
61	60.8	67.0	76.5	74.8	74.8	14.0	6.2
63	61.2	67.8	79.5	75.5	75.5	14.3	6.6
65	60.6	67.9	79.8	76.1	76.1	15.5	7.3
67	61.1	67.3	77.0	75.7	75.7	14.6	6.2
69	60.0	66.8	77.4	74.7	74.7	14.7	6.8
71	61.0	67.7	78.1	76.3	77.5	15.3	6.7
73	60.5	67.1	77.0	75.6	75.6	15.1	6.6
75	58.7	65.3	75.4	73.7	74.7	15.0	6.6
77	58.6	65.6	75.6	74.3	75.9	15.7	7.0

TABLE A-IV

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 26, 60 MPH FLY BY, CENTERLINE MIC, (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	55.2	63.9	66.4	76.4	76.4	21.2	8.7
4	58.2	68.3	71.1	80.8	80.8	22.6	10.1
7	58.6	68.5	71.8	80.9	80.9	22.3	9.9
10	57.9	68.9	79.5	81.0	81.0	23.1	11.0
13	58.7	68.8	75.1	81.0	81.0	22.3	10.1
16	61.3	69.4	72.3	81.2	81.2	19.9	8.1
19	64.5	70.7	74.3	81.7	81.7	17.2	6.2
22	61.6	69.3	73.9	81.3	81.3	19.7	7.7
25	61.9	69.7	74.6	81.2	81.2	19.3	7.8
28	61.5	69.5	70.5	81.2	81.2	19.7	8.0
31	63.6	70.5	72.7	81.5	81.5	17.9	6.9
34	65.2	71.4	74.2	81.9	81.9	16.7	6.2
37	64.9	71.3	74.6	81.7	81.7	16.8	6.4
40	65.6	71.6	74.7	81.9	81.9	16.3	6.0
43	66.9	73.2	75.2	82.3	82.3	15.4	6.3
46	67.5	73.7	77.0	82.7	82.7	15.2	6.2
OH → 49	68.5	73.9	75.6	83.1	83.1	14.6	5.4
52	66.1	72.1	76.3	82.1	82.1	16.0	6.0
55	66.3	72.1	75.5	81.9	81.9	15.6	5.8
58	66.0	71.5	74.8	81.7	81.7	15.7	5.5
61	64.4	71.1	74.5	81.4	81.4	17.0	6.7
64	62.8	70.1	75.0	81.1	81.1	18.3	7.3
67	60.6	69.2	72.0	80.8	80.8	20.2	8.6
70	59.8	68.4	70.4	80.7	80.7	20.9	8.6
73	61.1	68.7	69.1	80.8	80.8	19.7	7.6
76	61.8	69.1	71.9	81.0	81.0	19.2	7.3
79	60.1	68.7	71.5	80.9	80.9	20.8	8.6
82	57.0	67.9	70.6	80.8	80.8	23.8	10.9

TABLE A-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 27, 60 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	55.7	64.4	69.9	76.4	76.4	20.7	8.7
4	59.6	68.5	70.8	80.9	80.9	21.3	8.9
7	57.6	67.7	69.5	80.7	80.7	23.1	10.1
10	58.9	68.1	69.5	80.7	80.7	21.8	9.2
13	57.5	67.9	68.9	80.7	80.7	23.2	10.4
16	59.5	68.6	69.2	80.8	80.8	21.3	9.1
19	57.7	68.2	72.2	80.8	80.8	23.1	10.5
22	58.1	68.1	72.7	80.9	80.9	22.8	10.0
25	57.5	68.2	70.6	80.8	80.8	23.3	10.7
28	57.8	68.1	71.2	80.8	80.8	23.0	10.3
31	60.3	68.7	72.8	80.9	80.9	20.6	8.4
34	60.3	68.8	75.2	81.0	81.0	20.7	8.5
37	60.1	69.3	76.6	81.0	81.0	20.9	9.2
40	59.3	68.8	74.0	81.0	81.0	21.7	9.5
43	59.1	68.5	70.7	80.9	80.9	21.3	9.4
46	59.9	69.0	73.4	81.1	81.1	21.2	9.1
49	61.9	69.5	70.9	81.1	81.1	19.2	7.6
52	66.8	71.9	74.6	82.4	82.4	15.6	5.1
55	61.5	69.5	73.1	81.1	81.1	19.6	8.0
58	65.5	71.7	75.2	81.7	81.7	16.2	6.2
61	64.8	71.4	74.8	81.6	81.6	16.8	6.6
64	65.5	71.9	74.5	81.8	81.8	16.3	6.4
67	65.8	71.8	74.7	82.0	82.0	16.2	6.0
70	65.1	71.7	73.7	81.7	81.7	16.6	6.6
73	67.7	73.4	74.3	82.4	82.4	14.7	5.7
OH → 76	69.0	74.4	77.1	83.5	83.5	14.5	5.4
79	67.6	73.0	76.1	82.5	82.5	14.9	5.4
82	65.2	71.1	72.9	81.4	81.4	16.2	5.9
85	65.0	71.4	72.7	81.3	81.3	16.3	6.4
88	64.6	70.8	71.2	81.2	81.2	16.6	6.2
91	62.7	69.6	72.8	80.9	80.9	18.2	6.9
94	60.5	69.0	70.4	80.7	80.7	20.2	8.5
97	59.6	68.7	72.7	80.8	80.8	21.2	9.1
100	61.9	68.8	71.6	80.9	80.9	19.0	6.9
103	59.9	68.7	69.2	80.8	80.8	20.9	8.8
106	58.5	68.1	70.9	80.7	80.7	22.2	9.6
109	59.0	68.5	70.2	80.7	80.7	21.7	9.5

TABLE A-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 28, 60 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	55.6	62.0	71.1	72.3	72.3	16.7	6.4
3	53.7	61.5	71.2	71.9	71.9	18.2	7.8
5	57.7	63.0	70.7	73.0	73.0	15.3	5.3
7	60.3	64.5	70.2	74.1	75.3	13.8	4.2
9	60.8	65.1	70.0	74.7	76.0	13.9	4.3
11	60.4	65.3	70.0	75.1	75.1	14.7	4.9
13	62.5	66.8	70.8	76.0	77.5	13.5	4.3
15	61.1	66.0	70.1	75.2	75.2	14.1	4.9
17	59.3	64.7	69.7	73.7	73.7	14.4	5.4
19	59.2	64.9	70.1	74.1	74.1	14.9	5.7
21	64.2	68.7	73.2	77.0	77.0	12.8	4.5
23	64.5	69.0	73.3	77.2	77.2	12.7	4.5
25	64.3	68.5	72.7	76.7	76.7	12.4	4.2
27	64.2	69.0	75.2	77.4	77.4	13.2	4.8
29	64.3	69.2	74.9	77.8	77.8	13.5	4.9
31	65.1	69.6	75.5	78.1	78.1	13.0	4.5
33	64.7	69.2	74.1	77.3	77.3	12.6	4.5
35	65.5	70.8	74.0	78.7	79.8	13.2	5.3
37	65.9	71.1	74.9	79.2	79.2	13.3	5.2
ON → 39	67.0	71.7	76.4	80.0	80.0	13.0	4.7
41	67.5	72.4	77.9	80.2	80.2	12.7	4.9
43	69.1	73.7	78.7	81.0	81.0	11.9	4.6
45	70.3	74.4	78.8	81.8	81.8	11.5	4.1
47	69.1	73.6	78.3	81.1	81.1	12.0	4.5
49	64.8	69.3	75.0	77.3	77.3	12.5	4.5
51	65.2	69.1	75.7	77.2	77.2	12.0	3.9
53	63.1	67.3	73.5	75.8	75.8	12.7	4.2
55	60.9	65.4	73.0	74.4	74.4	13.5	4.5
57	59.1	64.3	72.3	73.5	73.5	14.4	5.2
59	60.5	65.0	72.4	74.1	74.1	13.6	4.5
61	59.8	64.4	71.4	73.5	73.5	13.7	4.6
63	58.7	64.0	73.3	73.1	74.5	14.4	5.3
65	57.8	62.9	70.6	72.7	72.7	14.9	5.1
67	55.8	61.9	67.2	72.2	72.2	16.4	6.1

TABLE A-II

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 29, 69 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	56.4	63.2	69.9	72.7	72.7	16.3	6.8
3	57.0	63.7	69.9	72.9	74.1	15.9	6.7
5	58.1	64.2	70.1	73.6	73.6	15.5	6.1
7	59.9	65.2	71.6	74.2	74.2	14.3	5.3
9	60.2	65.4	70.3	74.4	74.4	14.2	5.2
11	61.7	66.7	69.7	75.3	75.3	13.6	5.0
13	63.2	68.1	70.4	76.5	76.5	13.3	4.9
15	63.4	68.6	70.3	76.8	76.8	13.4	5.2
17	64.1	69.0	71.7	77.7	78.8	13.6	4.9
19	64.6	69.9	73.0	78.1	78.1	13.5	5.3
21	65.7	70.8	74.0	78.5	78.5	12.8	5.1
OH→23	67.2	72.2	75.1	80.1	80.1	12.9	5.0
25	66.8	71.8	74.2	79.7	79.7	12.9	5.0
27	68.1	72.9	74.3	80.5	80.5	12.4	4.8
29	68.8	73.6	75.1	81.0	81.0	12.2	4.8
31	69.0	73.4	76.0	80.7	80.7	11.7	4.4
33	64.9	69.5	72.1	77.8	77.8	12.9	4.6
35	64.6	69.0	71.0	77.2	77.2	12.6	4.4
37	63.7	68.3	69.9	76.7	76.7	13.0	4.6
39	62.5	67.5	71.3	76.0	76.0	13.5	5.0
41	61.5	66.7	70.7	75.2	75.2	13.7	5.2
43	64.4	68.8	71.3	76.9	76.9	12.5	4.4
45	65.3	69.4	71.0	77.3	77.3	12.0	4.1
47	61.2	65.7	67.7	74.5	74.5	13.3	4.5
49	58.9	63.4	65.8	72.9	74.2	14.0	4.5
51	59.1	63.4	67.7	73.1	73.1	14.0	4.3

TABLE A-II

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 30, 69 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	54.5	60.2	66.7	71.7	73.0	17.2	5.7
3	54.8	60.7	68.4	71.8	72.8	17.0	5.9
5	56.3	61.9	69.5	72.3	72.3	16.0	5.6
7	57.0	62.3	67.3	72.6	72.6	15.6	5.3
9	59.8	64.4	67.4	73.3	73.3	13.5	4.6
11	57.4	62.6	67.4	72.6	72.6	15.2	5.2
13	58.4	63.6	68.2	73.3	73.3	14.9	5.2
15	61.4	66.2	70.1	75.2	75.2	13.8	4.8
17	60.9	65.6	69.6	74.9	74.9	14.0	4.7
19	61.0	65.9	69.6	75.1	75.1	14.1	4.9
21	60.8	66.0	69.4	75.1	75.1	14.3	5.2
23	62.3	67.2	70.1	75.7	75.7	13.4	4.9
25	61.7	67.0	70.8	75.5	75.5	13.8	5.3
27	60.9	66.7	70.4	75.6	75.6	14.7	5.8
29	62.6	67.6	70.7	76.4	76.4	13.8	5.0
31	63.5	68.1	71.3	76.9	76.9	13.4	4.6
33	64.5	69.5	71.6	77.9	77.9	13.4	5.0
35	64.8	69.8	72.8	78.2	78.2	13.4	5.0
OH 37 → 38	66.2	70.8	73.6	79.1	79.1	12.9	4.6
39	66.5	71.4	73.6	79.3	79.3	12.8	4.9
41	66.2	70.8	73.2	78.8	78.8	12.6	4.6
43	65.9	70.8	73.0	78.8	78.8	12.9	4.9
45	65.2	70.1	73.1	78.1	78.1	12.9	4.9
47	64.7	69.6	73.2	77.5	77.5	12.8	4.9
49	63.5	68.4	72.3	76.2	76.2	12.7	4.9
51	62.9	67.5	71.7	75.5	75.5	12.6	4.6
53	60.7	65.6	69.7	74.3	74.3	13.6	4.9
55	59.3	64.1	67.9	73.5	73.5	14.2	4.8
57	58.4	63.1	66.4	72.9	72.9	14.5	4.7
59	59.2	63.4	66.3	73.0	74.5	13.8	4.2
61	57.5	62.3	66.0	72.5	72.5	15.0	4.8
63	58.2	62.7	66.1	72.6	74.0	14.4	4.5
65	57.2	61.8	66.1	72.3	73.7	15.1	4.6
67	55.9	61.3	65.9	72.1	72.1	16.2	5.4
69	55.9	60.9	64.8	72.0	73.4	16.1	5.0
71	54.1	60.2	63.7	71.6	71.6	17.5	6.1

TABLE A-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 31, 76 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	56.5	62.4	68.8	72.6	72.6	16.1	5.9
3	55.8	62.6	71.1	72.5	72.5	16.7	6.8
5	55.0	62.7	73.5	72.2	72.2	17.2	7.7
7	57.9	64.4	72.6	73.4	73.4	15.5	6.5
9	57.6	64.3	72.5	73.4	73.4	15.8	6.7
11	56.8	63.3	70.7	73.0	73.0	16.2	6.5
13	55.4	62.4	68.9	72.3	72.3	16.9	7.0
15	58.4	64.9	70.9	74.1	74.1	15.7	6.5
17	58.5	64.9	71.8	74.1	74.1	15.6	6.4
19	58.4	64.6	70.9	73.5	73.5	15.1	6.2
21	59.7	65.6	71.2	74.8	74.8	15.1	5.9
23	61.7	66.9	72.0	75.5	75.5	13.8	5.2
25	63.6	68.5	73.5	77.0	77.0	13.4	4.9
27	65.0	69.9	74.1	78.5	78.5	13.5	4.9
29	65.1	70.4	75.2	78.7	78.7	13.6	5.3
OH 31 → 32	66.2	71.1	75.6	79.3	79.3	13.1	4.9
33	66.7	71.2	75.2	79.5	79.5	12.8	4.5
35	66.1	71.1	75.0	79.2	79.2	13.1	5.0
37	66.3	71.0	74.9	79.3	79.3	13.0	4.7
39	67.2	72.0	74.5	80.0	80.0	12.8	4.8
41	66.7	71.8	74.3	79.1	79.1	12.4	5.1
43	65.9	70.7	75.1	78.7	78.7	12.8	4.8
45	66.2	70.7	74.6	78.6	78.6	12.4	4.5
47	66.2	70.4	73.2	78.2	78.2	12.0	4.2
49	65.3	69.6	72.0	77.6	77.6	12.3	4.3
51	63.0	67.6	72.7	76.0	76.0	13.0	4.6
53	61.8	66.4	72.9	75.1	75.1	13.3	4.6
55	59.6	64.9	72.1	73.7	73.7	14.1	5.3
57	59.5	64.5	71.3	73.5	73.5	14.0	5.0
59	57.8	63.6	71.7	73.0	73.0	15.2	5.8
61	59.9	64.9	72.6	73.9	73.9	14.0	5.0
63	59.5	64.4	71.2	73.5	74.5	14.0	4.9
65	58.3	63.7	70.5	73.0	73.0	14.7	5.4
67	57.1	62.8	70.4	72.7	72.7	15.6	5.7
69	57.9	63.3	70.4	73.1	73.1	15.2	5.4

TABLE A-II

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 33. 76 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	57.7	63.7	70.3	73.3	73.3	15.6	6.0
3	58.6	64.4	73.9	73.5	73.5	14.9	5.8
5	58.9	64.8	72.3	73.8	73.8	14.9	5.9
7	59.4	65.2	72.1	74.1	74.1	14.7	5.8
9	61.3	67.4	74.0	75.9	77.1	14.6	6.1
11	63.2	68.2	74.8	77.1	78.5	13.9	5.0
13	62.5	67.5	76.5	76.0	77.1	13.5	5.0
15	62.3	67.2	73.3	76.4	76.4	14.1	4.9
17	62.4	67.4	73.5	76.4	76.4	14.0	5.0
19	60.4	66.2	75.1	74.9	74.9	14.5	5.8
21	61.0	66.9	73.9	75.5	75.5	14.5	5.9
23	64.8	69.6	74.5	78.0	78.0	13.2	4.8
25	67.8	72.1	76.3	80.4	80.4	12.6	4.3
27	69.2	73.4	77.8	81.8	81.8	12.6	4.2
29	68.9	73.4	77.2	81.3	81.3	12.4	4.5
31	68.1	73.0	76.2	81.0	81.0	12.9	4.9
OH → 33	68.0	72.9	76.9	80.9	80.9	12.9	4.9
35	66.0	71.0	76.3	79.0	79.0	13.0	5.0
37	66.8	71.5	76.5	79.5	79.5	12.7	4.7
39	66.2	70.9	76.3	78.7	78.7	12.5	4.7
41	63.7	68.6	74.1	76.7	76.7	13.0	4.9
43	64.2	69.1	74.3	76.9	76.9	12.7	4.9
45	63.0	68.2	73.9	76.0	76.0	13.0	5.2
47	59.8	65.4	72.1	74.0	74.0	14.2	5.6
49	60.9	66.1	72.9	74.5	74.5	13.6	5.2
51	58.9	64.4	71.5	73.6	73.6	14.7	5.5
53	57.1	62.9	69.6	73.0	73.0	15.9	5.8
55	57.1	63.1	71.1	72.9	72.9	15.8	6.0
57	58.9	64.1	70.3	73.3	74.4	14.4	5.2

TABLE A-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 34, 76 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	59.3	65.2	73.4	74.2	74.2	14.9	5.9
3	59.6	65.9	75.6	74.5	74.5	14.9	6.3
5	58.6	65.2	73.2	73.9	73.9	15.3	6.6
7	59.5	65.4	70.5	74.2	74.2	14.7	5.9
9	61.9	67.1	71.5	76.0	76.0	14.1	5.2
11	62.8	68.2	71.9	76.8	76.8	14.0	5.4
13	64.0	69.1	73.5	77.7	77.7	13.7	5.1
15	66.8	71.7	74.9	79.7	79.7	12.9	4.9
17	66.2	71.6	75.0	79.0	79.0	12.8	5.4
19	68.7	73.8	77.1	81.2	81.2	12.5	5.1
OH 21	69.0	74.4	77.7	81.9	81.9	12.9	5.4
23	70.1	75.3	77.8	82.9	82.9	12.8	5.2
25	69.1	73.9	76.7	81.7	81.7	12.6	4.8
27	68.0	72.8	75.3	80.6	80.6	12.6	4.8
29	66.5	71.4	74.1	79.3	79.3	12.8	4.9
31	67.9	72.9	75.0	80.4	80.4	12.5	5.0
33	67.0	71.8	73.8	79.6	79.6	12.6	4.8
35	66.7	71.4	72.6	79.3	79.3	12.6	4.7
37	64.3	69.1	72.2	77.3	77.3	13.0	4.8
39	63.3	68.0	71.4	76.6	76.6	13.3	4.7
41	64.6	68.6	70.1	77.4	77.4	12.8	4.0
43	62.0	66.2	70.1	74.8	74.8	12.8	4.2
45	58.9	64.3	69.8	73.3	73.3	14.4	5.4
47	60.1	65.5	70.0	73.9	73.9	13.8	5.4
49	60.7	66.0	70.7	74.8	74.8	14.1	5.3
51	59.5	64.8	70.1	73.7	73.7	14.2	5.3
53	59.3	64.4	69.3	73.6	73.6	14.3	5.1

TABLE A-IV

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 35, 82 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	54.8	62.1	69.1	72.5	72.5	17.7	7.3
3	55.1	62.5	70.8	72.4	72.4	17.3	7.4
5	55.2	62.9	71.8	72.6	72.6	17.4	7.7
7	56.0	62.6	70.0	72.6	72.6	16.6	6.6
9	61.5	65.8	71.2	74.9	74.9	13.4	4.3
11	62.0	66.9	72.8	75.8	75.8	13.8	4.9
13	58.5	64.6	70.7	73.6	73.6	15.1	6.1
15	57.2	63.3	68.0	72.8	72.8	15.6	6.1
17	60.8	65.9	69.5	75.2	75.2	14.4	5.1
19	62.0	67.1	70.7	75.8	75.8	13.8	5.1
21	61.4	67.0	71.0	75.9	75.9	14.5	5.6
23	64.4	69.6	72.1	78.1	78.1	13.7	5.2
25	64.1	69.4	72.7	77.8	77.8	13.7	5.3
27	65.1	70.1	72.7	78.5	78.5	13.4	5.0
29	66.1	71.3	73.6	79.3	79.3	13.2	5.2
CH-31 → 32	65.5	70.7	73.9	78.5	78.5	13.0	5.2
33	66.1	71.0	74.9	78.6	78.6	12.5	4.9
35	66.9	71.4	75.7	78.9	78.9	12.0	4.5
37	66.4	71.2	74.4	78.6	78.6	12.2	4.8
39	66.5	70.7	75.0	78.5	78.5	12.0	4.2
41	65.5	69.7	73.7	77.5	77.5	12.0	4.2
43	63.9	68.5	72.1	76.3	76.3	12.4	4.6
45	64.6	69.3	72.3	77.3	77.3	12.7	4.7
47	60.1	66.1	70.3	74.9	74.9	14.8	6.0
49	58.6	63.7	66.7	73.3	73.3	14.7	5.1
51	58.9	63.5	66.2	73.2	74.5	14.3	4.6
53	56.9	62.6	65.6	72.7	72.7	15.8	5.7
55	59.4	64.3	67.1	73.5	75.1	14.1	4.9
57	58.0	64.1	67.2	73.1	74.2	15.1	6.1
59	56.3	63.3	67.0	72.6	72.6	16.3	7.0

TABLE A-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 36, 82 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	DASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	53.7	61.8	67.9	72.1	72.1	18.4	8.1
3	53.5	61.6	67.3	72.1	72.1	18.6	8.1
5	55.2	62.6	68.4	72.4	72.4	17.2	7.4
7	56.9	63.4	69.3	72.9	72.9	16.0	6.5
9	55.9	63.2	68.8	72.7	72.7	16.8	7.3
11	58.7	64.5	69.6	73.5	73.5	14.8	5.8
13	57.5	63.8	69.3	73.0	73.0	15.5	6.3
15	55.7	62.6	68.6	72.5	72.5	16.8	6.9
17	55.4	62.2	67.8	72.3	72.3	16.9	6.8
19	56.5	63.0	69.3	72.7	72.7	16.2	6.5
21	58.9	64.3	69.8	73.7	73.7	14.8	5.4
23	59.5	65.0	69.6	73.9	73.9	14.4	5.5
25	59.8	65.1	68.5	73.7	73.7	13.9	5.3
27	61.2	66.2	69.4	74.9	74.9	13.7	5.0
29	62.4	67.8	70.8	76.4	78.0	14.0	5.4
31	66.0	70.9	73.7	78.9	80.2	12.9	4.9
33	65.7	70.5	73.9	78.8	78.8	13.1	4.8
OH → 35	65.2	70.3	74.0	78.5	78.5	13.3	5.1
37	65.4	70.4	74.4	78.5	78.5	13.1	5.0
39	66.2	71.0	74.2	79.0	79.0	12.8	4.8
41	66.4	71.5	73.7	79.4	79.4	13.0	5.1
43	66.1	70.7	73.1	78.7	78.7	12.6	4.6
45	64.5	69.2	70.7	77.1	77.1	12.6	4.7
47	64.0	68.6	69.9	76.8	76.8	12.8	4.6
49	64.5	68.6	69.2	77.0	77.0	12.5	4.1
51	64.4	68.5	68.2	76.9	76.9	12.5	4.1
53	61.6	66.2	67.7	75.1	75.1	13.5	4.6
55	60.2	64.8	66.2	73.9	73.9	13.7	4.6
57	58.8	63.5	66.0	73.0	73.0	14.2	4.7
59	57.6	63.0	65.9	72.7	72.7	15.1	5.4
61	57.4	62.8	65.9	72.6	72.6	15.2	5.4

TABLE A-IV

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 37, 82 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	47.4	55.7	65.2	67.3	67.3	19.9	8.3
3	53.2	60.7	70.4	71.6	71.6	18.4	7.5
5	53.7	60.5	69.6	71.6	71.6	17.9	6.8
7	55.0	61.2	67.9	71.9	71.9	16.9	6.2
9	60.7	64.6	71.3	74.0	75.5	13.3	3.9
11	59.1	63.3	68.8	72.7	74.0	13.6	4.2
13	53.0	60.8	68.2	71.6	71.6	18.6	7.8
15	56.6	62.6	68.4	72.5	72.5	15.9	6.0
17	57.0	62.7	68.9	72.8	72.8	15.8	5.7
19	58.5	63.5	68.2	73.6	73.6	15.1	5.0
21	56.9	62.8	67.5	72.8	72.8	15.9	5.9
23	57.8	63.6	68.6	73.1	74.4	15.3	5.8
25	59.6	65.3	70.9	74.3	74.3	14.7	5.7
27	58.6	64.6	69.8	73.9	73.9	15.3	6.0
29	58.4	64.9	69.0	74.1	74.1	15.7	6.5
31	59.7	66.0	71.8	75.2	75.2	15.5	6.3
33	60.6	66.4	73.2	75.8	75.8	15.2	5.8
35	62.5	67.4	71.2	76.4	76.4	13.9	4.9
37	63.7	68.8	73.0	77.5	77.5	13.8	5.1
39	65.8	70.8	74.4	78.8	78.8	13.0	5.0
OH → 41	66.5	71.5	75.5	79.3	79.3	12.8	5.0
43	65.4	70.3	74.9	78.6	78.6	13.2	4.9
45	66.1	70.8	75.6	78.7	78.7	12.6	4.7
47	65.2	69.4	74.4	77.5	77.5	12.3	4.2
49	64.5	69.2	76.0	77.2	77.2	12.7	4.7
51	63.6	68.1	75.1	76.0	76.0	12.4	4.5
53	63.6	67.7	72.8	76.0	76.0	12.4	4.1
55	61.0	65.8	70.2	74.4	74.4	13.4	4.8
57	59.0	63.9	68.9	73.2	73.2	14.2	4.9
59	59.1	64.0	70.3	73.3	73.3	14.2	4.9
61	60.8	64.9	71.2	74.1	74.1	13.3	4.1
63	59.2	63.7	71.1	73.3	73.3	14.1	4.5
65	56.5	62.1	69.8	72.4	72.4	15.9	5.6
67	55.1	61.5	68.8	72.1	72.1	17.0	6.4
69	53.5	60.8	68.7	71.8	71.8	18.3	7.3
71	53.1	60.8	68.1	71.8	71.8	18.7	7.7

TABLE A-II

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 40, 90 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	55.7	62.7	70.4	72.8	72.8	17.1	7.0
3	54.7	62.4	68.9	72.6	72.6	17.9	7.7
5	56.3	61.8	67.4	72.4	72.4	16.1	5.5
7	59.6	64.0	70.3	73.4	73.4	13.8	4.4
9	58.2	64.0	72.9	73.2	73.2	15.0	5.8
11	55.3	63.2	74.1	72.6	72.6	17.3	7.9
13	56.1	63.1	73.4	72.7	72.7	16.6	7.0
15	58.2	63.9	72.6	73.3	73.5	15.1	5.7
17	60.5	65.8	72.7	74.7	74.7	14.2	5.3
19	59.7	64.9	71.7	74.4	74.4	14.7	5.2
21	57.5	63.8	71.1	73.1	73.1	15.6	6.3
23	61.7	66.5	72.4	75.4	76.4	13.7	4.8
25	61.9	67.2	73.6	75.9	75.9	14.0	5.3
27	60.9	67.5	75.3	75.9	75.9	15.0	6.6
29	60.8	68.5	75.7	76.5	76.5	15.7	7.7
31	60.4	67.2	73.4	75.8	75.8	15.4	6.8
33	60.9	67.6	73.7	76.0	76.0	15.1	6.7
35	60.8	67.7	74.4	75.9	75.9	15.1	6.9
37	60.6	67.5	74.2	76.1	76.1	15.5	6.9
39	62.7	68.7	72.9	4	77.4	14.7	6.0
41	65.6	70.5	73.5	78.7	78.7	13.1	4.9
OH 43 → 44	67.2	72.1	75.8	79.9	79.9	12.7	4.9
45	67.1	72.1	76.6	79.9	79.9	12.8	5.0
47	68.3	73.2	76.7	80.7	80.7	12.4	4.9
49	66.5	71.4	75.2	79.1	79.1	12.6	4.9
51	66.2	70.9	74.3	78.7	78.7	12.5	4.7
53	64.8	69.7	73.1	77.6	77.6	12.8	4.9
55	64.6	69.2	72.4	77.3	77.3	12.7	4.6
57	65.7	69.7	72.2	77.9	77.9	12.2	4.0
59	61.2	66.0	70.7	74.6	74.6	13.4	4.8
61	61.9	66.4	72.9	75.0	76.4	13.1	4.5
63	61.2	65.6	72.5	74.5	75.6	13.3	4.4
65	59.5	64.1	69.8	73.4	73.4	13.9	4.6
67	58.9	63.7	72.9	73.1	74.6	14.2	4.8
69	56.5	62.8	74.2	72.4	72.4	15.9	6.3
71	56.2	63.0	72.7	72.4	72.4	16.2	6.8
73	57.1	63.0	71.5	72.5	72.5	15.4	5.9
75	52.8	60.6	69.6	71.5	71.5	18.7	7.8

TABLE A-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 44. 6 DEGREE APPROACH. CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	55.5	62.7	72.7	72.4	72.4	16.9	7.2
3	56.1	63.2	73.9	72.6	73.9	16.5	7.1
5	56.7	63.3	72.0	72.8	74.3	16.1	6.6
7	61.1	65.1	73.4	73.9	75.3	12.8	4.0
9	60.6	65.6	75.5	74.6	75.6	14.0	5.0
11	58.3	64.6	75.3	73.4	74.6	15.1	6.3
13	58.2	64.8	72.9	74.0	74.0	15.8	6.6
15	58.6	65.1	71.4	74.2	74.2	15.6	6.5
17	61.8	66.6	72.6	75.8	75.8	14.0	4.8
19	63.4	68.4	73.8	77.0	77.0	13.6	5.0
21	62.7	68.7	75.6	77.3	77.3	14.6	6.0
23	67.7	72.4	76.2	80.3	81.3	12.6	4.7
25	69.0	73.5	75.7	81.5	81.5	12.5	4.5
27	67.6	72.1	74.7	80.4	80.4	12.8	4.5
29	66.4	71.9	74.4	79.5	80.6	13.1	5.5
OH → 31	67.4	72.5	75.8	80.1	80.1	12.7	5.1
33	70.6	75.5	78.9	82.5	82.5	11.9	4.9
35	70.8	75.5	78.8	82.7	82.7	11.9	4.7
37	66.9	71.7	76.2	78.9	78.9	12.0	4.8
39	66.0	71.0	75.3	78.5	78.5	12.5	5.0
41	66.1	70.9	74.6	78.7	78.7	12.6	4.8
43	62.4	67.3	72.9	75.9	75.9	13.5	4.9
45	62.5	67.6	74.5	76.1	76.1	13.6	5.1
47	61.5	67.0	74.4	75.3	75.3	13.8	5.5
49	57.3	63.9	73.1	73.1	73.1	15.8	6.6
51	56.9	63.8	73.9	72.9	72.9	16.0	6.9
53	56.2	63.3	73.7	72.6	72.6	16.4	7.1

TABLE A-IV

NOISE LEVEL TIME HISTORY DATA

HUGHES 300 C

OCTOBER 14 1976

EVENT 58, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	64.6	69.3	74.5	77.1	78.3	12.5	4.7
2	63.7	69.0	74.9	77.1	77.1	13.4	5.3
3	64.2	69.5	74.9	77.5	77.5	13.3	5.3
4	66.8	71.2	75.1	78.7	78.7	11.9	4.4
5	68.6	72.6	75.9	80.3	81.4	11.7	4.0
6	72.4	75.1	77.8	83.2	84.3	10.8	2.7
7	73.6	76.9	78.9	84.5	84.5	10.9	3.3
8	73.6	77.3	78.9	84.5	84.5	10.9	3.7
9	72.3	77.0	78.3	83.6	83.6	11.3	4.7
10	73.2	77.6	78.6	84.9	84.9	11.7	4.4
11	73.9	78.4	79.3	85.6	85.6	11.7	4.5
12	75.3	79.9	80.6	86.8	86.8	11.0	4.1
OH → 13	76.0	80.3	81.2	87.3	88.3	11.3	4.3
14	76.2	80.7	81.7	87.6	87.6	11.4	4.5
15	74.4	79.4	80.8	86.3	86.3	11.9	5.0
16	72.8	77.7	79.4	84.6	84.6	11.8	4.9
17	70.5	75.4	78.0	82.4	82.4	11.9	4.9
18	69.8	74.7	78.2	81.4	81.4	11.6	4.9
19	68.7	73.9	78.4	80.6	80.6	11.9	5.2
20	67.7	73.0	77.9	80.0	80.0	12.3	5.3
21	66.9	71.9	77.4	79.6	79.6	12.7	5.0
22	66.3	71.3	76.7	78.9	78.9	12.6	5.0
23	66.3	71.0	76.5	78.8	78.8	12.5	4.7
24	66.2	70.5	76.6	78.1	78.1	11.9	4.3
25	66.5	70.7	76.9	78.5	79.6	12.0	4.2
26	66.5	70.6	76.6	78.3	79.6	11.8	4.1
27	65.3	69.7	75.3	77.5	77.5	12.2	4.4
28	64.5	68.8	74.4	77.0	77.0	12.5	4.3
29	65.0	69.0	73.8	77.6	77.6	12.6	4.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 31, 76 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-33.0	-26.0	-19.0	-12.0	-7.5	-5.0	0	2.0	9.0	16.0	16.5
17	54.7	56.9	59.1	57.9	62.5	61.3	61.4	60.4	57.2	59.3	58.7
18	51.2	55.4	56.2	54.0	57.7	60.4	60.8	58.5	57.6	58.3	59.0
19	52.2	53.5	53.7	53.0	56.7	55.9	56.5	55.2	54.8	59.1	59.4
20	58.2	63.5	64.9	63.6	63.5	62.8	57.0	58.2	61.4	59.0	59.1
21	47.4	51.8	52.2	53.1	54.7	52.5	51.8	50.3	48.5	51.2	51.2
22	42.7	46.9	46.0	45.5	47.8	46.3	53.4	52.2	49.1	50.0	50.1
23	53.2	62.9	59.0	53.2	56.0	61.8	64.2	60.2	55.1	49.0	48.7
24	42.2	49.8	48.1	46.0	51.4	55.0	55.7	55.6	57.5	49.4	48.7
25	46.9	57.3	53.8	56.5	65.2	66.7	52.4	52.2	57.1	50.2	49.3
26	43.7	52.9	48.4	56.1	64.5	59.5	58.2	58.6	50.4	52.5	51.3
27	42.2	53.2	49.7	54.0	57.1	57.9	57.8	58.1	58.9	53.4	52.3
28	40.4	50.4	46.9	46.8	53.3	59.0	60.2	61.5	56.6	48.2	47.1
29	42.2	49.2	45.0	47.1	57.5	56.3	59.2	59.7	57.8	53.3	51.4
30	40.7	46.7	45.0	49.4	52.4	56.1	58.8	57.7	55.5	50.9	49.9
31	40.4	45.1	45.0	46.8	51.4	54.0	56.6	56.5	54.3	51.2	49.3
32	40.4	45.0	45.0	45.3	46.8	50.4	54.4	55.0	50.8	46.4	45.7
33	40.4	45.0	45.0	45.0	45.8	49.6	52.9	53.1	49.4	45.3	45.2
34	40.4	45.0	45.0	45.0	45.0	45.4	48.6	50.5	46.1	45.0	45.0
35	40.4	45.0	45.0	45.0	45.0	45.0	45.5	46.2	45.2	45.0	45.0
36	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	43.4	48.4	48.1	47.6	47.5	48.0	47.8	48.0	47.9	47.9	48.2
A	50.4	58.7	55.6	58.4	65.4	66.5	66.7	66.5	63.7	59.1	57.7
D	58.9	65.3	63.5	64.3	69.8	70.2	70.3	70.1	68.0	64.2	63.8
OASPL	66.2	70.6	71.1	68.5	73.5	73.4	74.2	73.2	70.8	71.2	71.4
PNL	68.1	74.3	72.7	73.3	77.7	78.6	77.5	77.7	75.8	73.1	72.8
PNLT	68.1	74.3	72.7	73.3	79.3	78.6	77.5	77.7	75.8	74.4	72.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 33, 76 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-29.0	-22.5	-16.0	-9.5	-3.0	0	3.5	10.0	16.5	18.5
17	60.2	60.3	58.9	65.2	63.6	74.9	68.7	67.5	63.2	59.6
18	57.9	61.1	60.6	63.6	62.4	76.1	69.1	65.4	60.7	58.5
19	56.9	60.6	58.6	60.4	61.5	70.0	66.2	60.5	58.8	56.9
20	57.2	62.0	63.7	64.6	64.2	68.2	65.9	60.6	57.2	56.0
21	51.9	54.4	56.3	58.3	59.2	63.2	65.1	58.5	53.7	53.4
22	53.9	53.5	53.4	56.1	57.3	61.6	63.4	55.9	54.8	50.6
23	53.9	56.9	58.4	55.2	62.0	64.5	61.8	55.1	52.4	49.6
24	47.9	50.2	51.8	52.5	57.4	62.1	60.2	53.0	49.2	48.2
25	43.9	51.9	48.6	55.1	62.3	59.4	57.6	51.8	46.7	45.8
26	43.2	47.8	51.3	55.1	51.9	60.3	59.2	52.7	45.5	45.0
27	41.4	46.0	53.5	52.3	57.6	58.4	59.3	51.1	47.6	45.4
28	40.4	45.4	51.5	46.6	54.8	58.9	59.2	46.6	48.2	46.5
29	40.4	45.8	48.7	46.3	52.1	56.9	57.6	48.0	48.9	47.4
30	40.4	45.6	46.4	46.2	50.1	56.9	57.8	45.2	47.2	45.5
31	40.4	45.0	45.7	45.2	48.8	54.9	56.9	45.3	45.1	45.0
32	40.4	45.0	45.0	45.0	46.3	53.3	53.9	45.0	45.0	45.0
33	40.4	45.0	45.0	45.0	45.3	51.7	52.7	45.0	45.0	45.0
34	40.4	45.0	45.0	45.0	45.0	49.5	49.4	45.0	45.0	45.0
35	40.4	45.0	45.0	45.0	45.0	46.2	45.6	45.0	45.0	45.0
36	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	40.4	45.0	45.0	45.0	45.0	45.1	45.0	45.0	45.0	45.0
40	42.9	47.8	47.5	47.3	47.6	48.4	47.7	47.4	47.3	47.7
A	50.4	54.9	57.8	57.6	62.3	66.5	66.4	56.8	55.4	53.6
D	59.7	63.8	64.6	65.5	68.3	73.9	71.7	65.4	63.7	62.1
OASPL	71.9	71.1	70.9	74.9	76.0	85.3	80.5	76.8	74.9	71.4
PNL	68.2	72.7	73.3	73.6	76.4	79.9	78.9	73.4	72.3	71.8
PNLT	68.2	72.7	73.3	73.6	76.4	79.9	78.9	73.4	72.3	71.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 34, 76 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-25.5	-19.5	-13.5	-7.5	-1.5	0	4.5	10.5	16.5	19.0
17	51.9	60.6	62.7	61.6	57.8	56.8	54.8	54.2	50.4	50.5
18	50.4	57.7	59.9	59.2	59.2	58.1	55.4	53.9	53.0	52.9
19	44.7	55.0	59.6	57.4	55.2	54.1	55.8	56.8	57.1	56.7
20	55.4	65.0	64.8	63.0	62.2	62.1	62.8	62.9	63.4	61.3
21	45.4	52.2	55.0	53.4	49.2	48.6	48.3	50.2	50.4	49.8
22	43.4	48.2	50.0	48.2	50.0	52.2	53.4	48.4	48.0	48.8
23	55.2	57.5	55.1	57.5	60.2	62.2	61.2	50.3	46.7	47.7
24	44.4	47.1	46.8	51.7	56.7	57.9	56.7	53.3	49.5	48.2
25	50.4	51.2	50.7	62.0	54.5	54.2	53.5	53.6	50.9	49.4
26	48.7	46.7	56.0	59.1	52.9	56.2	55.2	49.3	53.8	53.0
27	45.2	47.7	54.1	52.3	60.5	60.7	58.3	51.6	49.9	52.5
28	41.2	45.3	49.6	55.9	54.9	59.3	54.6	52.9	48.3	48.7
29	40.4	45.0	47.2	53.6	56.1	58.7	54.5	51.6	50.7	50.0
30	40.4	45.0	47.4	55.1	57.6	59.2	56.6	51.1	49.6	50.1
31	40.4	45.0	45.8	52.0	56.4	59.0	56.3	51.1	48.7	46.3
32	40.4	45.0	45.0	49.0	54.3	56.2	53.2	49.1	46.8	45.0
33	40.4	45.0	45.0	47.7	52.4	56.2	52.6	47.0	45.4	45.0
34	40.4	45.0	45.0	45.0	48.3	51.5	50.5	45.0	45.0	45.0
35	40.4	45.0	45.0	45.0	45.6	48.5	47.1	45.0	45.0	45.0
36	40.4	45.0	45.0	45.0	45.0	45.2	45.0	45.0	45.0	45.0
37	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.1	45.0	45.0
40	41.7	47.4	47.6	47.5	47.2	47.4	47.6	47.6	47.3	47.6
A	51.4	54.5	58.3	62.9	64.8	67.4	64.4	59.5	58.0	57.4
D	59.2	63.2	65.1	67.5	69.1	71.5	69.0	64.8	64.0	62.9
OASPL	63.7	70.3	73.1	72.5	72.5	72.6	70.7	68.3	67.1	65.9
PNL	68.4	72.4	73.3	76.0	76.9	79.1	77.0	73.5	72.9	72.7
PNLT	68.4	72.4	73.3	76.0	76.9	79.1	77.0	73.5	72.9	72.7

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 31, 76 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-31.5	-24.5	-17.5	-10.5	-3.5	0	3.5	10.5	17.5	18.0
17	.0	59.1	63.9	62.4	67.8	66.1	67.3	68.7	67.6	67.4
18	.0	55.3	59.6	56.1	61.3	62.1	62.5	65.7	61.0	60.4
19	.0	54.7	57.1	54.7	57.6	57.1	59.3	61.1	60.0	59.3
20	.0	62.5	63.6	64.6	62.1	55.8	56.9	61.3	60.7	59.9
21	.0	51.6	52.6	53.9	53.4	52.9	53.3	54.6	51.8	51.9
22	.0	47.7	48.5	46.4	52.2	54.5	54.5	54.0	49.9	50.4
23	.0	58.3	57.4	48.4	56.6	58.5	60.7	56.5	49.6	49.7
24	.0	47.5	46.9	48.3	57.9	56.5	55.3	58.2	49.3	48.7
25	.0	46.1	45.7	61.2	56.0	51.8	52.3	55.6	49.7	49.2
26	.0	45.0	48.7	61.1	55.3	62.1	59.1	52.1	54.0	53.3
27	.0	45.0	49.2	55.5	58.5	56.6	55.7	53.7	53.6	52.9
28	.0	45.3	49.9	50.4	55.9	60.3	58.8	55.2	48.1	47.6
29	.0	47.4	47.7	57.1	58.8	60.2	58.3	56.1	50.4	50.6
30	.0	47.3	46.7	52.4	58.0	59.1	57.8	55.7	49.8	49.9
31	.0	45.5	46.2	55.1	55.0	56.3	56.3	56.4	47.8	48.0
32	.0	45.0	45.0	50.9	54.3	54.5	54.5	54.4	45.7	45.0
33	.0	45.0	45.0	47.2	51.2	52.1	52.3	53.3	45.0	45.0
34	.0	45.0	45.0	45.2	48.4	49.9	50.0	50.2	45.0	45.0
35	.0	45.0	45.0	45.0	45.0	45.7	45.6	45.3	45.0	45.0
36	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	46.7	54.0	55.8	63.5	65.0	66.2	64.9	64.0	57.7	57.4
D	57.7	62.5	64.2	67.6	69.1	70.3	69.6	69.3	64.7	64.5
OASPL	74.2	73.4	77.7	73.0	77.1	78.3	77.7	77.3	78.3	77.7
PNL	.0	72.1	72.5	76.1	76.9	77.9	77.2	77.1	73.0	72.8
PNLT	.0	72.1	72.5	78.0	76.9	77.9	77.2	77.1	73.0	72.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 33, 76 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-21.5	-16.0	-10.5	-5.0	-.5	0	.5	6.0	11.5	17.0	18.5
17	54.4	58.7	63.4	67.5	66.1	65.6	63.5	58.5	58.5	53.8	.0
18	52.4	57.8	59.7	63.4	63.0	64.3	63.7	61.3	56.5	54.6	.0
19	55.7	56.4	59.3	61.8	63.6	64.1	63.9	61.7	60.1	57.7	.0
20	54.4	59.4	62.2	62.7	60.8	60.2	59.3	64.4	59.2	57.6	.0
21	50.4	55.5	57.4	58.9	58.7	59.9	59.9	59.3	54.7	53.6	.0
22	50.4	53.5	56.6	55.5	58.1	57.7	57.7	57.9	54.2	54.3	.0
23	53.7	53.8	57.3	58.8	64.6	65.2	65.1	56.5	54.1	51.3	.0
24	44.9	50.6	53.8	55.8	57.6	57.5	56.7	57.9	50.9	48.5	.0
25	42.9	47.8	55.3	55.8	52.4	52.5	53.0	56.2	50.1	45.6	.0
26	41.4	49.3	54.6	51.3	61.9	62.1	62.0	52.8	53.9	45.0	.0
27	44.9	52.1	52.9	59.4	58.7	58.2	57.4	55.3	52.7	47.1	.0
28	47.4	52.0	51.8	59.3	62.8	62.3	61.8	56.2	47.2	48.6	.0
29	41.4	49.1	58.0	59.8	62.0	61.8	61.2	54.0	48.8	48.6	.0
30	43.9	54.5	55.4	59.0	60.9	60.0	59.6	55.4	49.5	46.8	.0
31	42.7	49.9	57.0	57.1	58.7	58.4	57.4	55.0	47.7	45.3	.0
32	40.4	48.2	50.9	54.5	56.8	56.9	55.9	53.4	45.7	45.4	.0
33	40.4	45.0	48.5	51.8	54.4	54.3	53.1	51.0	45.0	45.0	.0
34	40.4	45.0	45.7	47.2	51.9	52.3	51.8	47.9	45.0	45.0	.0
35	40.4	45.0	45.0	45.0	47.6	47.5	46.9	45.0	45.0	45.0	.0
36	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	.0
37	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	.0
38	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	.0
39	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	.0
40	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	.0
A	52.2	59.0	63.0	65.9	68.4	68.2	67.7	63.3	57.3	54.7	.0
D	59.7	63.8	67.0	69.6	71.9	72.1	71.4	68.1	63.5	61.7	5.0
OASPL	70.7	72.0	73.8	77.9	75.1	75.6	75.1	72.8	70.1	68.3	.0
PNL	68.2	73.2	75.8	77.5	79.6	79.5	79.0	76.5	73.0	72.1	.0
PNLT	69.6	74.9	77.3	77.5	79.6	79.5	79.0	76.5	73.0	72.1	.0

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-III

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 34, 76 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-25.0	-19.5	-14.0	-8.5	-3.0	0	1.5	2.5	8.0	13.5	16.5
17	.0	56.2	59.6	58.7	65.0	61.4	60.9	62.1	62.4	65.8	60.8
18	.0	51.6	54.9	56.3	59.6	60.9	58.5	58.8	57.3	61.7	56.6
19	.0	55.4	56.2	54.4	59.8	58.5	56.6	58.4	59.7	64.5	62.4
20	.0	62.9	67.2	63.3	61.2	60.2	57.7	60.7	66.9	70.9	69.0
21	.0	51.0	56.4	51.8	51.0	52.4	51.4	52.8	51.3	54.7	52.6
22	.0	50.2	50.4	48.8	51.1	56.8	52.7	52.9	54.6	53.0	51.4
23	.0	58.0	55.6	54.9	57.8	61.3	58.9	58.4	58.5	56.4	54.7
24	.0	48.8	46.9	54.2	58.0	57.6	56.0	55.6	56.3	54.4	49.4
25	.0	49.0	53.4	60.0	56.4	54.7	53.7	53.3	55.0	53.1	49.6
26	.0	47.4	58.8	56.4	53.4	57.3	57.5	56.1	51.6	54.8	52.5
27	.0	47.2	56.6	50.5	59.9	58.1	57.8	56.8	55.3	51.6	50.6
28	.0	46.3	53.8	54.6	54.1	55.5	56.4	55.4	51.9	53.4	50.8
29	.0	46.5	49.9	51.5	57.4	55.5	57.2	56.2	51.8	56.1	54.0
30	.0	45.0	53.9	53.5	57.3	56.6	58.7	57.1	51.8	51.9	47.5
31	.0	45.2	50.4	51.7	56.3	56.9	59.1	56.3	51.7	50.1	46.8
32	.0	45.0	50.0	49.5	54.7	54.5	56.4	54.5	50.2	48.8	45.8
33	.0	45.0	46.0	47.4	51.5	53.1	54.3	52.3	48.7	46.2	45.0
34	.0	45.0	45.0	45.0	48.7	51.3	50.8	50.6	46.1	45.0	45.0
35	.0	45.0	45.0	45.0	45.1	46.0	46.4	46.1	45.0	45.0	45.0
36	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	45.4	54.9	61.5	61.4	64.8	64.9	66.1	64.5	60.8	61.3	58.2
D	55.9	62.6	66.4	66.5	69.4	69.8	70.1	68.8	67.0	67.7	65.5
OASPL	62.7	67.9	71.8	73.6	77.7	76.1	76.9	76.1	76.5	78.1	75.0
PNL	.0	72.3	75.1	74.9	76.9	77.5	77.8	76.8	74.8	76.4	74.5
PNLT	.0	72.3	76.4	76.1	76.9	77.5	77.8	76.8	74.8	77.6	76.1

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 26, 60 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-24.0	-18.0	-12.0	-6.0	0	6.0	12.0	18.0
17	54.9	67.5	65.9	65.4	61.5	58.7	56.2	.0
18	50.9	63.5	59.9	60.5	55.6	56.1	55.6	.0
19	50.4	61.8	59.1	58.5	55.8	56.0	58.7	.0
20	56.4	60.5	63.2	59.4	68.1	55.9	56.3	.0
21	50.9	57.7	56.1	55.4	60.2	55.0	55.0	.0
22	50.4	55.2	55.0	55.1	58.0	61.7	55.0	.0
23	54.9	55.0	55.0	66.2	63.3	63.6	55.0	.0
24	50.4	55.0	55.0	57.0	59.8	57.8	55.0	.0
25	50.4	55.5	62.6	57.1	66.4	55.0	55.0	.0
26	50.4	55.1	58.8	60.1	60.5	55.4	55.0	.0
27	50.4	55.0	55.0	59.4	58.1	56.7	55.0	.0
28	50.7	55.0	55.0	57.3	58.9	56.1	55.0	.0
29	50.4	55.0	55.0	56.7	59.4	56.1	57.7	.0
30	50.4	55.0	55.0	57.2	60.4	56.6	55.0	.0
31	50.4	55.0	55.0	56.1	59.5	56.7	55.0	.0
32	50.4	55.0	55.0	55.1	57.8	55.9	55.0	.0
33	50.4	55.0	55.0	55.0	57.3	55.5	55.0	.0
34	50.4	55.0	55.0	55.0	57.0	55.0	55.0	.0
35	50.4	55.0	55.0	55.0	55.0	55.0	55.0	.0
36	50.4	55.0	55.0	55.0	55.0	55.0	55.0	.0
37	50.4	55.0	55.0	55.0	55.0	55.0	55.0	.0
38	50.4	55.0	55.0	55.0	55.0	55.0	55.0	.0
39	50.4	55.0	55.0	55.0	55.0	55.0	55.0	.0
40	50.4	55.0	55.0	55.0	55.0	55.0	55.0	.0
A	55.2	58.7	61.9	64.9	68.5	64.4	61.1	.0
D	63.9	68.8	69.7	71.3	73.9	71.1	68.7	5.0
OASPL	66.4	75.1	74.6	74.6	75.6	74.5	69.1	.0
PNL	76.4	81.0	81.2	81.7	83.1	81.4	80.8	.0
FMT	76.4	81.0	81.2	81.7	83.1	81.4	80.8	.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 27, 60 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-37.5	-30.0	-22.5	-15.0	-7.5	0	7.5	15.0	18.0
17	56.4	58.3	59.5	65.8	64.0	60.2	58.1	57.7	57.5
18	54.9	56.4	55.9	60.6	60.2	57.1	58.8	56.0	57.5
19	51.4	55.0	55.0	58.5	56.6	58.6	56.9	57.6	56.6
20	55.7	62.3	63.5	63.3	60.7	66.8	58.6	58.5	58.0
21	53.2	55.1	56.3	56.1	58.2	61.9	55.0	55.0	55.3
22	50.4	55.0	55.0	55.0	57.3	64.2	55.1	55.0	55.0
23	53.7	56.5	55.0	58.2	66.1	65.0	55.1	55.0	55.0
24	50.9	55.0	55.0	55.2	55.3	63.5	55.9	55.0	55.0
25	50.4	55.0	55.0	59.1	60.6	64.5	55.0	55.0	55.0
26	50.4	55.0	57.5	55.0	57.8	63.3	55.0	55.0	55.0
27	50.4	55.0	55.9	55.2	59.0	62.8	57.3	55.0	55.0
28	50.4	55.0	55.2	55.0	56.2	62.8	55.5	55.0	55.0
29	50.7	55.0	55.0	55.0	55.7	62.2	55.5	55.0	55.0
30	50.4	55.3	55.0	55.0	55.5	60.7	57.3	55.0	55.0
31	50.4	55.0	55.0	55.0	55.8	60.2	55.7	55.0	55.0
32	50.4	55.0	55.0	55.0	55.0	59.0	55.0	55.0	55.0
33	50.4	55.0	55.0	55.0	55.0	56.5	55.0	55.0	55.0
34	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
35	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	55.7	59.5	60.3	59.9	64.8	69.0	62.7	58.5	57.8
D	64.4	68.6	68.7	69.0	71.4	74.4	69.6	68.1	68.0
OASPL	69.9	69.2	72.8	73.4	74.8	77.1	72.8	70.9	70.4
PNL	76.4	80.8	80.9	81.1	81.6	83.5	80.9	80.7	80.7
PNLT	76.4	80.8	80.9	81.1	81.6	83.5	80.9	80.7	80.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 28, 60 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-26.5	-20.5	-14.5	-8.5	-2.5	0	3.5	9.5	15.5	18.5
17	58.5	59.7	58.7	64.0	61.6	64.3	61.1	57.8	53.3	52.2
18	54.3	54.8	53.1	59.1	56.9	58.0	56.5	55.4	52.3	51.5
19	53.5	54.1	55.3	59.8	53.5	58.9	57.9	58.0	57.9	57.9
20	58.9	61.1	61.1	63.0	57.2	65.9	64.0	55.1	54.5	55.3
21	50.4	52.4	53.5	54.2	53.9	59.5	67.9	51.4	47.8	49.5
22	47.1	47.5	47.7	47.2	55.3	58.6	66.5	54.8	47.1	51.7
23	51.5	51.0	52.3	61.8	66.4	54.8	66.7	51.6	45.0	47.1
24	46.1	45.2	46.5	53.9	52.0	59.0	63.3	56.5	48.3	45.6
25	45.4	46.6	57.1	62.9	57.8	62.6	67.2	53.2	48.9	45.0
26	45.4	47.6	59.9	56.9	60.3	57.3	62.3	48.7	50.4	49.8
27	48.8	49.5	56.4	57.1	56.8	57.9	63.8	52.4	48.2	51.8
28	47.2	49.5	50.7	57.8	54.0	57.9	62.5	51.6	46.6	46.2
29	46.6	46.6	50.2	52.9	56.6	57.8	62.0	52.8	50.3	45.1
30	45.3	46.5	52.1	55.2	57.1	57.9	60.6	50.9	47.1	47.3
31	45.1	46.7	47.7	54.9	56.4	58.3	59.5	50.9	46.8	47.9
32	45.0	45.0	46.2	52.7	55.3	56.6	57.1	50.0	45.1	45.6
33	45.0	45.0	45.0	50.5	53.2	55.6	54.8	48.2	45.0	45.0
34	45.0	45.0	45.0	48.3	53.4	54.5	51.8	45.2	45.0	45.0
35	45.0	45.0	45.0	45.0	46.8	42.7	46.6	45.0	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	46.5	45.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	53.2	54.5	60.4	64.4	65.7	67.0	70.0	59.6	55.5	55.0
D	60.9	61.7	64.9	68.9	70.4	71.7	74.3	64.6	61.0	61.1
OASPL	69.4	71.3	69.5	73.8	73.9	76.4	78.8	72.3	66.4	65.0
PNL	71.7	72.1	74.7	77.1	78.3	80.0	81.8	73.6	72.0	72.0
PNLT	71.7	72.1	75.8	77.1	79.5	80.0	81.8	73.6	73.1	72.0

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 29, 69 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-32.5	-26.0	-19.5	-13.0	-6.5	0	6.5	13.0	14.5
17	50.5	55.2	58.0	56.5	56.8	56.8	53.5	51.8	53.3
18	49.0	52.0	51.3	51.8	56.1	49.5	52.7	51.4	53.1
19	48.2	52.4	53.1	52.2	51.9	56.8	49.5	57.1	58.7
20	57.7	64.1	62.6	63.5	58.6	68.1	50.2	56.9	57.6
21	45.6	52.6	51.7	50.9	48.4	57.5	50.3	46.6	48.4
22	44.3	46.2	45.9	45.1	50.0	58.0	60.4	45.2	46.3
23	56.8	58.7	54.3	45.6	62.6	63.1	60.3	45.1	45.1
24	44.2	47.4	45.4	45.7	55.5	61.0	50.9	52.8	52.0
25	43.5	45.3	45.6	53.3	58.4	64.1	54.3	51.9	53.6
26	44.0	45.0	49.3	51.3	54.3	57.9	56.9	51.4	55.9
27	43.5	45.0	51.1	49.1	54.7	57.8	55.3	46.1	52.3
28	44.1	45.1	50.5	45.0	50.1	58.1	54.4	52.0	51.0
29	44.0	45.8	46.6	46.3	50.5	57.2	54.7	50.4	54.9
30	43.5	45.5	46.1	45.0	51.3	58.3	55.6	53.0	52.0
31	43.5	45.0	45.9	45.7	50.3	58.3	56.1	50.8	52.7
32	43.5	45.0	45.0	45.0	47.1	56.1	54.3	48.9	48.6
33	43.5	45.0	45.0	45.0	46.0	56.6	52.5	46.4	46.0
34	43.5	45.0	45.0	45.0	45.2	54.5	48.9	45.0	45.0
35	43.5	45.0	45.0	45.0	45.0	49.8	45.7	45.0	45.0
36	43.5	45.0	45.0	45.0	45.0	46.5	45.0	45.0	45.0
37	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	43.5	45.0	45.0	45.0	45.0	45.3	45.0	45.0	45.0
A	51.6	53.7	55.6	54.4	60.5	67.2	63.8	58.9	60.3
D	59.3	61.9	61.9	61.9	65.8	72.2	68.3	63.4	64.2
OASPL	65.3	69.3	66.9	69.8	69.6	75.1	70.3	65.8	68.2
PNL	70.3	72.1	72.3	72.1	74.7	80.1	76.5	72.9	73.5
PNLT	70.3	72.1	72.3	72.1	74.7	80.1	76.5	74.2	74.6

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 30, 69 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-21.0	-15.5	-10.0	-4.5	-1.0	0	1.0	6.5	12.0	17.5	18.0
17	55.4	55.5	58.8	57.6	58.2	57.5	55.2	51.5	50.5	52.0	.0
18	53.7	51.7	52.8	54.2	52.0	51.9	49.9	52.4	49.9	49.5	.0
19	52.7	51.6	55.9	53.0	52.0	56.4	57.5	50.5	56.9	55.4	.0
20	51.9	61.3	60.8	53.6	63.5	66.8	67.3	49.5	54.3	53.2	.0
21	45.7	52.8	52.9	49.5	56.3	56.7	55.8	47.4	48.6	48.1	.0
22	41.9	45.1	45.2	51.8	57.1	57.1	55.6	62.1	45.0	47.4	.0
23	41.9	49.4	56.0	65.8	66.1	63.4	60.4	61.2	45.0	45.1	.0
24	40.4	45.2	49.9	54.9	55.8	57.6	59.2	55.4	50.7	45.0	.0
25	43.7	50.5	61.0	53.6	63.3	63.4	61.8	52.1	51.6	45.0	.0
26	46.4	50.9	57.6	60.0	55.3	56.9	58.3	56.9	52.7	45.6	.0
27	47.2	50.8	50.0	54.8	59.3	57.4	55.6	53.6	50.0	48.9	.0
28	44.4	49.9	52.2	55.0	55.3	57.5	57.0	54.8	49.9	48.7	.0
29	45.2	48.4	52.8	53.1	55.2	55.9	56.5	54.8	51.9	45.2	.0
30	43.2	50.3	52.1	52.6	56.6	57.9	58.0	55.5	49.4	46.4	.0
31	40.9	47.7	49.5	52.2	56.7	57.4	57.9	54.8	49.1	45.5	.0
32	40.4	46.8	47.2	50.3	55.6	55.7	55.2	51.8	47.2	45.0	.0
33	40.4	45.1	45.2	47.1	53.5	54.9	55.4	50.0	45.3	45.0	.0
34	40.4	45.0	45.0	45.7	53.6	54.4	53.5	46.2	45.0	45.0	.0
35	40.4	45.0	45.0	45.0	47.1	47.3	48.8	45.0	45.0	45.0	.0
36	40.4	45.0	45.0	45.0	45.0	46.3	46.3	45.0	45.0	45.0	.0
37	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	.0
38	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	.0
39	40.4	45.0	45.0	45.0	45.0	45.2	45.2	45.0	45.0	45.0	.0
40	40.4	45.0	45.0	45.0	45.0	45.3	45.2	45.0	45.0	45.0	.0
A	50.9	57.0	60.7	62.6	66.1	66.6	66.5	62.9	57.9	53.0	.0
D	56.2	62.3	65.5	67.6	70.7	71.4	71.3	67.5	62.7	59.9	5.0
OASPL	62.4	67.3	69.3	70.7	73.4	73.6	73.5	71.7	66.0	65.1	.0
PNL	68.0	72.6	74.8	76.4	78.9	79.6	79.1	75.5	72.6	71.5	.0
PNLT	68.0	72.6	74.8	76.4	80.0	79.6	79.1	75.5	72.6	71.5	.0

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 31, 76 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-31.5	-24.5	-17.5	-10.5	-3.5	0	3.0	3.5	10.5	17.5	19.0
17	.0	56.1	62.0	60.6	59.9	62.7	58.1	58.2	59.5	58.8	55.9
18	.0	52.4	57.0	56.0	55.0	55.4	53.1	53.5	57.8	54.8	52.3
19	.0	50.6	55.9	52.4	53.0	54.8	55.8	55.9	55.6	56.2	57.6
20	.0	56.4	62.3	61.3	52.5	67.4	68.3	67.7	58.6	57.3	58.9
21	.0	49.0	52.9	52.4	51.9	59.3	57.0	56.5	52.2	52.0	51.5
22	.0	45.4	47.2	45.6	51.0	56.2	55.6	55.7	54.2	49.5	51.3
23	.0	53.2	50.9	53.0	66.3	64.9	60.9	62.2	57.6	49.9	52.2
24	.0	45.0	45.7	47.4	55.7	57.7	61.0	62.2	56.7	53.7	53.0
25	.0	45.0	46.4	58.8	55.3	65.4	64.0	64.1	51.9	52.6	52.2
26	.0	45.0	47.2	55.3	62.3	58.2	61.4	60.9	53.3	52.9	54.5
27	.0	45.0	46.6	47.6	55.7	57.4	56.4	56.9	55.8	49.3	52.9
28	.0	45.0	45.0	46.1	57.0	57.5	57.6	58.1	53.0	48.1	52.4
29	.0	46.2	45.0	45.4	53.6	56.6	56.5	56.6	53.5	49.5	51.0
30	.0	45.5	45.0	45.0	53.2	57.4	57.9	57.7	54.4	49.7	48.4
31	.0	45.0	45.0	45.0	52.7	56.7	57.6	57.4	53.3	48.3	49.0
32	.0	45.0	45.0	45.0	49.9	54.7	55.7	55.5	51.8	46.1	47.3
33	.0	45.0	45.0	45.0	47.8	53.4	55.4	55.3	50.3	45.1	46.0
34	.0	45.0	45.0	45.0	48.0	52.2	55.1	54.7	47.1	45.0	45.0
35	.0	45.0	45.0	45.0	45.0	46.8	49.3	49.3	45.0	45.0	45.0
36	.0	45.0	45.0	45.0	45.0	45.0	45.5	45.7	45.0	45.0	45.0
37	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	45.4	51.5	51.9	56.8	63.6	66.4	67.0	67.2	61.8	57.1	58.6
D	55.4	60.0	61.2	63.3	68.5	70.9	71.7	72.0	66.4	62.8	63.5
OMSL	66.2	68.0	72.5	70.7	73.5	75.7	74.7	74.5	72.9	70.4	68.7
PNL	.0	71.5	71.8	73.0	77.0	79.3	80.0	80.0	75.1	72.7	73.3
PNLT	.0	71.5	71.8	73.0	77.0	79.3	80.0	80.0	75.1	72.7	73.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 33, 76 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-25.0	-19.0	-13.0	-7.0	-3.0	-1.0	0	5.0	11.0	17.0
17	63.6	57.4	61.6	60.9	63.9	61.8	63.5	63.3	58.2	56.0
18	59.8	58.5	59.5	58.1	61.6	58.4	61.8	62.0	56.7	54.9
19	57.7	61.6	61.6	60.4	62.8	61.5	61.6	58.0	58.4	56.7
20	60.3	60.6	62.5	61.2	62.9	67.5	69.2	58.9	57.6	55.4
21	56.6	57.4	61.4	57.8	62.7	61.8	60.7	57.0	56.2	52.1
22	52.1	56.6	58.1	55.1	59.6	60.1	59.3	62.1	52.8	50.0
23	59.0	56.5	55.9	62.3	71.4	67.0	62.7	62.8	51.6	48.3
24	50.5	50.5	52.0	54.6	60.3	57.7	59.3	54.1	52.2	46.2
25	49.7	48.3	58.2	60.0	61.6	68.2	67.1	53.3	50.4	45.0
26	45.7	47.0	54.9	50.3	64.6	60.7	61.7	58.8	52.5	46.6
27	44.5	45.8	49.5	54.0	60.5	60.8	57.2	54.2	51.7	50.4
28	46.2	46.3	45.9	51.3	61.1	59.3	58.9	54.6	46.4	49.3
29	48.7	45.5	50.0	51.0	59.5	56.6	56.9	54.9	49.9	45.2
30	47.3	46.1	48.8	49.6	59.0	56.9	57.5	56.4	47.6	45.9
31	46.3	45.7	50.8	49.5	57.1	56.4	57.3	55.7	49.2	45.5
32	44.3	45.0	47.0	46.4	55.6	55.4	56.5	54.0	47.3	45.0
33	43.5	45.0	45.0	45.0	54.0	54.0	56.0	52.0	46.1	45.0
34	43.5	45.0	45.0	45.0	52.0	52.9	54.7	49.2	45.0	45.0
35	43.5	45.0	45.0	45.0	46.3	48.5	50.6	45.5	45.0	45.0
36	43.5	45.0	45.0	45.0	45.0	45.1	47.2	45.0	45.0	45.0
37	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	55.8	54.7	59.4	60.4	69.2	68.1	68.0	64.2	57.1	54.2
D	62.7	62.8	65.2	66.2	73.4	73.0	72.9	69.1	63.1	60.8
OASPL	71.5	70.9	72.1	75.1	77.8	76.2	76.9	74.3	71.1	68.3
PNL	71.6	72.6	74.1	74.9	81.8	81.0	80.9	76.9	72.9	71.8
PNLT	71.6	72.6	74.1	74.9	81.8	81.0	80.9	76.9	72.9	71.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HJGHES 300 C

OCTOBER 14 1976

EVENT 34, 76 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-19.0	-14.0	-9.0	-4.0	0	1.0	6.0	11.0	16.0	17.0
17	63.6	66.0	62.6	59.0	62.7	63.6	60.9	52.8	53.4	53.3
18	59.6	63.0	60.9	58.7	56.5	58.7	56.4	53.2	51.8	51.5
19	57.5	62.8	58.8	54.1	57.9	60.1	56.5	57.1	58.7	57.2
20	62.4	65.0	64.4	53.6	69.7	70.1	62.7	62.9	65.3	63.3
21	54.2	57.9	55.5	54.1	60.8	58.6	54.0	49.6	52.0	50.9
22	50.6	51.9	52.1	54.0	58.9	57.5	61.4	54.1	48.5	48.4
23	56.9	53.4	58.0	66.2	64.1	62.4	64.4	55.6	50.0	50.2
24	48.8	50.3	54.2	54.5	61.6	62.4	55.6	58.9	54.7	55.0
25	48.6	59.0	59.7	53.3	66.8	65.1	58.3	53.2	52.5	53.9
26	46.6	58.4	53.9	60.5	61.4	62.8	59.1	50.3	54.3	56.4
27	45.7	54.5	50.2	54.4	59.0	59.0	59.6	57.5	53.1	51.9
28	45.4	47.7	51.6	53.3	58.9	59.3	57.7	53.4	53.6	53.2
29	45.0	48.9	49.4	54.2	58.6	58.5	58.1	56.1	51.2	51.6
30	45.0	45.7	50.1	54.3	59.9	61.1	59.2	57.6	49.6	50.3
31	45.0	45.6	48.9	53.2	60.0	60.3	59.1	55.9	48.7	48.1
32	45.0	45.1	46.3	51.4	58.3	59.0	58.5	55.3	47.6	48.0
33	45.0	45.0	45.0	49.1	58.4	59.5	57.1	53.3	45.7	46.0
34	45.0	45.0	45.0	49.0	55.9	58.7	54.5	49.0	45.0	45.0
35	45.0	45.0	45.0	45.0	51.7	51.7	50.6	45.6	45.0	45.0
36	45.0	45.0	45.0	45.0	48.5	48.7	46.9	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.2	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.5	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.4	45.0	45.0	45.0	45.0	45.0
A	53.2	59.3	59.8	63.2	69.2	69.9	67.7	64.3	59.4	59.4
D	62.9	65.8	65.8	68.3	74.3	75.1	72.6	68.2	64.5	64.3
OASPL	74.6	76.0	75.5	72.3	77.7	77.9	75.0	70.2	69.5	68.9
PNL	72.2	74.5	74.5	76.9	81.8	82.7	80.2	76.9	73.6	73.7
PNLT	72.2	74.5	74.5	76.9	81.8	82.7	80.2	76.9	73.6	73.7

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 35, 82 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-38.0	-30.5	-23.0	-15.5	-8.0	-1.5	-.5	0	7.0	14.5
17	.0	57.9	57.1	59.7	59.4	55.0	56.1	56.4	53.3	49.3
18	.0	56.3	52.7	51.7	53.8	53.2	50.8	50.3	51.8	48.5
19	.0	55.2	51.3	54.9	53.6	50.4	52.3	54.3	57.2	59.7
20	.0	54.6	61.1	61.4	61.7	61.6	65.7	67.2	63.9	52.8
21	.0	57.4	55.4	58.0	51.9	55.9	55.8	55.5	49.5	49.6
22	.0	48.7	45.8	47.5	45.2	57.1	56.4	56.4	58.6	59.5
23	.0	49.7	47.7	54.4	56.8	68.4	65.3	63.9	64.0	53.3
24	.0	53.1	45.6	52.5	49.3	56.7	58.3	59.7	57.5	47.7
25	.0	46.6	47.6	49.1	57.6	64.1	64.1	63.5	60.3	49.4
26	.0	45.5	47.9	52.1	54.6	59.4	56.1	57.6	55.0	51.7
27	.0	46.8	47.3	48.8	49.3	59.6	57.7	57.1	57.0	53.8
28	.0	49.2	45.9	48.4	51.1	56.7	56.5	57.1	52.6	50.6
29	.0	46.4	45.0	45.3	47.0	55.9	54.4	56.2	53.6	46.1
30	.0	45.0	45.0	45.0	47.5	56.3	55.7	56.8	54.5	47.7
31	.0	45.0	45.0	45.0	47.0	54.6	54.9	55.9	54.3	45.9
32	.0	45.0	45.0	45.0	45.7	53.6	53.6	54.3	51.2	45.4
33	.0	45.0	45.0	45.0	45.0	52.6	53.1	53.7	49.7	45.0
34	.0	45.0	45.0	45.0	45.0	51.8	52.1	52.5	46.4	45.0
35	.0	45.0	45.0	45.0	45.0	46.2	48.0	48.9	45.0	45.0
36	.0	45.0	45.0	45.0	45.0	45.0	45.9	46.2	45.0	45.0
37	.0	45.0	45.0	45.0	45.0	45.0	45.3	45.3	45.0	45.0
38	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	.0	45.0	45.0	45.0	45.0	45.0	45.3	45.3	45.0	45.0
A	45.9	53.2	51.9	54.8	57.6	66.1	65.5	66.0	62.9	56.9
D	55.4	61.1	60.2	62.1	63.7	71.3	70.7	71.1	68.1	62.8
OASPL	64.9	71.0	67.9	69.1	68.5	73.6	73.9	74.6	71.7	66.5
PNL	.0	71.9	71.8	72.5	73.1	79.3	78.5	78.8	76.5	72.7
PNLT	.0	71.9	71.8	72.5	73.1	79.3	78.5	78.8	76.5	72.7

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 36, 82 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-27.5	-22.0	-16.5	-11.0	-5.5	0	5.5	11.0	13.5
17	53.3	58.2	53.7	57.4	55.5	54.5	53.0	48.0	50.0
18	51.1	55.1	50.8	49.3	55.2	50.7	49.2	49.6	50.9
19	56.2	57.7	51.4	52.2	55.6	55.7	53.6	56.8	58.2
20	54.1	60.7	62.4	65.7	58.7	64.7	51.5	53.6	53.4
21	46.3	49.9	49.8	52.8	49.8	54.9	51.8	46.8	45.7
22	43.7	46.9	45.8	46.6	48.0	56.5	60.8	50.4	45.5
23	50.4	55.5	57.4	54.2	60.2	63.6	58.2	48.0	45.7
24	43.5	45.0	45.8	45.6	54.0	59.0	51.2	54.5	53.8
25	46.8	46.8	47.0	53.6	57.6	58.8	55.2	49.8	52.2
26	45.1	45.4	47.4	54.8	51.4	56.4	54.8	48.3	51.1
27	43.5	45.0	47.6	55.6	54.9	56.1	55.8	52.5	50.7
28	43.5	45.0	47.8	48.8	49.6	55.3	53.2	49.6	52.5
29	43.5	45.0	46.6	45.6	49.8	55.3	55.5	52.0	50.0
30	43.5	45.0	45.0	46.5	49.7	56.2	56.6	51.3	50.5
31	43.5	45.0	45.0	45.1	48.1	56.3	56.2	50.6	49.6
32	43.5	45.0	45.0	45.0	46.1	55.0	54.2	50.0	48.5
33	43.5	45.0	45.0	45.0	45.4	53.1	53.4	47.5	47.6
34	43.5	45.0	45.0	45.0	45.0	53.3	50.1	45.0	45.2
35	43.5	45.0	45.0	45.0	45.0	48.3	47.1	45.0	45.0
36	43.5	45.0	45.0	45.0	45.0	45.5	45.0	45.0	45.0
37	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	43.5	45.0	45.0	45.0	45.0	45.4	45.0	45.0	45.0
A	49.0	51.4	53.8	57.5	59.1	65.2	64.2	58.3	58.3
D	58.2	61.5	61.7	63.8	64.6	70.3	68.8	63.5	63.5
GASPL	67.0	69.5	67.0	69.3	68.7	74.0	70.0	66.0	65.9
PNL	70.1	71.8	72.1	73.0	73.5	78.5	76.9	73.0	72.9
PNLT	70.1	71.8	72.1	73.0	73.5	78.5	76.9	73.0	72.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 37, 82 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-20.0	-15.0	-10.0	-5.0	- .5	0	5.0	10.0	15.0	17.0
17	53.7	58.6	57.6	59.8	57.5	57.5	63.5	58.8	58.3	.0
18	50.2	54.0	51.5	56.1	55.6	54.7	60.5	55.2	55.4	.0
19	49.9	52.3	53.0	54.1	54.6	55.9	57.4	60.0	58.2	.0
20	52.7	60.8	60.9	59.7	65.1	66.4	55.2	55.5	53.6	.0
21	46.7	51.0	52.5	50.8	55.3	56.3	53.9	52.3	52.5	.0
22	43.9	47.1	46.9	49.6	56.2	56.0	63.3	49.8	50.1	.0
23	46.7	46.7	48.6	65.4	64.4	63.0	57.4	48.8	48.5	.0
24	41.9	45.2	46.6	54.4	58.2	59.3	57.1	53.1	48.1	.0
25	42.7	45.5	54.1	57.4	62.5	61.5	51.1	53.8	48.0	.0
26	40.4	47.8	56.7	50.9	57.4	57.9	57.2	55.6	49.6	.0
27	40.4	49.4	50.8	54.7	58.2	56.8	54.8	52.7	49.4	.0
28	40.4	50.4	46.2	49.1	55.9	56.0	56.0	53.6	47.7	.0
29	40.4	47.3	48.7	48.0	55.9	56.5	55.9	53.3	45.0	.0
30	40.4	54.1	46.7	47.3	56.8	57.0	55.6	53.4	45.0	.0
31	40.4	53.2	45.9	47.7	57.2	57.4	55.1	51.4	45.0	.0
32	40.4	50.2	45.0	45.5	56.0	56.3	52.6	51.0	45.0	.0
33	40.4	45.0	45.0	45.1	54.6	55.2	50.8	47.4	45.0	.0
34	40.4	45.0	45.0	45.0	54.2	54.0	46.8	45.0	45.0	.0
35	40.4	45.0	45.0	45.0	48.8	49.1	45.0	45.0	45.0	.0
36	40.4	45.0	45.0	45.0	46.0	46.1	45.0	45.0	45.0	.0
37	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	.0
38	40.4	45.0	45.0	45.0	45.1	45.1	45.0	45.0	45.0	.0
39	40.4	45.0	45.0	45.0	45.2	45.2	45.0	45.0	45.0	.0
40	40.4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	.0
A	47.4	59.1	56.9	59.7	66.6	66.5	63.6	60.8	53.1	.0
D	55.7	63.3	62.8	66.0	71.6	71.5	68.1	64.9	60.8	5.0
OASPL	65.2	68.8	67.5	71.8	75.5	75.5	75.1	71.2	68.1	.0
PNL	67.3	72.7	72.8	75.2	79.3	79.3	76.0	74.1	71.8	.0
PNLT	67.3	74.0	72.8	75.2	79.3	79.3	76.0	74.1	71.8	.0

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 40, 90 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-25.5	-19.5	-13.5	-7.5	-1.5	0	4.5	10.5	16.5	17.5
17	52.1	56.0	60.5	66.8	59.5	58.5	59.3	56.0	57.7	58.4
18	51.2	55.4	57.3	65.1	55.0	56.8	56.7	54.4	53.6	54.5
19	50.6	55.6	57.6	67.8	55.2	57.3	58.2	58.3	54.7	54.6
20	57.6	57.2	64.0	68.3	60.5	67.8	60.0	56.0	52.3	53.4
21	50.5	53.8	58.3	66.4	55.1	57.7	58.9	53.5	49.5	49.6
22	49.8	50.6	53.5	61.1	55.4	56.1	63.8	49.1	46.5	47.4
23	52.2	54.7	56.2	60.9	67.5	64.6	63.2	48.7	45.2	46.1
24	47.1	49.5	53.2	56.6	57.0	56.8	54.5	51.8	45.0	45.0
25	45.1	46.1	53.0	61.9	62.6	65.9	55.3	53.0	45.0	45.0
26	45.7	47.6	58.1	55.0	59.9	58.6	55.1	54.4	45.0	45.3
27	47.1	48.7	56.4	51.9	58.5	58.9	55.9	52.1	45.1	46.2
28	44.7	49.9	53.6	50.2	55.2	57.8	55.8	52.3	46.3	48.2
29	45.2	50.5	47.4	46.7	55.5	56.3	55.4	53.9	45.0	47.7
30	45.6	47.8	50.8	46.4	55.8	57.3	56.6	50.5	45.5	47.4
31	44.0	46.6	50.8	45.6	55.9	56.7	55.0	50.3	45.0	49.4
32	43.5	45.8	48.6	45.0	54.2	55.7	54.9	49.2	45.0	45.7
33	43.5	45.0	45.1	45.0	51.2	54.4	53.3	46.4	45.0	45.0
34	43.5	45.0	45.0	45.0	50.8	53.3	50.0	45.0	45.0	45.0
35	43.5	45.0	45.0	45.0	46.7	49.0	46.9	45.0	45.0	45.0
36	43.5	45.0	45.0	45.0	45.0	46.1	45.2	45.0	45.0	45.0
37	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	43.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	43.5	45.0	45.0	45.0	45.0	45.5	45.0	45.0	45.0	45.0
A	52.6	56.3	60.5	60.8	65.6	67.0	64.8	59.5	50.6	54.6
D	59.6	61.8	65.8	68.5	70.5	71.9	69.7	64.1	59.4	61.0
OASPL	65.1	67.4	72.7	75.7	73.5	76.1	73.1	69.8	68.2	70.0
PNL	70.5	72.4	74.7	76.5	78.7	79.8	77.6	73.4	71.2	71.6
PNLT	70.5	72.4	74.7	76.5	78.7	79.8	77.6	73.4	71.2	71.6

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 44, 6 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-11.0	-7.5	-4.0	-.5	0	1.5	3.0	6.5	10.0
17	64.9	63.3	61.2	65.6	61.1	61.2	60.7	57.0	59.5	63.4
18	58.6	58.3	54.2	58.3	56.2	55.6	56.9	59.0	56.4	58.4
19	57.1	57.7	53.6	56.8	55.9	57.7	59.9	53.8	60.0	61.0
20	60.3	61.9	62.4	57.9	67.3	68.2	69.1	59.3	58.7	60.3
21	53.6	55.1	53.7	56.6	59.2	59.6	67.9	57.5	53.1	53.0
22	49.9	50.6	49.0	59.0	58.3	59.6	68.2	64.9	55.1	53.6
23	48.9	51.0	58.4	69.9	64.5	63.4	66.4	65.5	55.4	52.7
24	48.2	52.5	51.4	64.1	58.7	60.7	67.1	58.6	59.3	53.0
25	54.4	59.7	59.9	57.8	64.8	64.9	67.4	62.6	56.3	48.3
26	53.4	57.6	53.5	63.2	57.6	59.2	65.9	60.4	53.1	48.1
27	49.0	53.8	47.9	59.1	58.1	57.6	65.6	60.5	53.5	52.3
28	45.1	52.8	51.2	61.9	57.2	57.7	63.9	59.5	54.6	49.9
29	45.6	54.1	47.7	58.5	57.0	58.0	61.8	58.3	52.8	47.0
30	45.0	50.4	49.1	57.6	57.5	58.6	60.6	57.8	53.4	48.1
31	45.4	51.4	47.8	56.5	56.8	57.3	60.3	57.4	53.3	48.3
32	45.0	46.1	45.9	53.2	55.7	56.9	58.2	55.0	51.5	46.1
33	45.0	45.0	45.0	51.5	54.4	55.6	57.1	53.4	49.7	45.7
34	45.0	45.0	45.0	49.4	54.4	54.0	53.8	50.7	47.1	45.0
35	45.0	45.0	45.0	45.4	49.6	50.4	49.3	46.4	47.5	45.0
36	45.0	45.0	45.0	45.0	46.9	47.5	46.8	45.0	45.9	45.0
37	45.0	45.0	45.0	45.0	45.1	45.1	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.3	45.3	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	55.1	60.6	58.8	67.7	66.8	67.4	71.1	66.9	62.4	56.9
D	62.7	65.6	65.1	72.4	72.0	72.5	75.9	71.7	67.2	63.8
OASPL	73.9	75.5	71.3	76.2	74.3	75.8	79.1	76.2	73.4	73.9
PNL	72.4	74.6	74.0	80.3	79.9	80.1	82.9	78.9	75.5	72.9
PNLT	72.4	75.6	75.2	81.3	79.9	80.1	82.9	78.9	75.5	72.9

LOWER LIMIT O-F ANALYSIS SYSTEM= 45.0

TABLE A-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 300 C

OCTOBER 14 1976

EVENT 58, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.0	-3.0	-1.0	0	1.0	3.0	5.0	7.0
17	67.6	68.6	64.3	62.6	61.1	63.4	63.1	64.3	63.3
18	60.7	61.5	58.2	56.5	57.1	58.7	63.2	63.1	62.4
19	58.5	60.7	59.9	57.1	62.4	64.5	58.7	63.1	63.6
20	61.7	58.3	62.0	68.9	70.4	69.0	60.4	58.2	59.9
21	55.7	54.8	59.9	68.1	68.9	66.7	64.6	57.9	58.0
22	52.5	54.8	64.2	70.5	70.0	69.7	66.9	62.7	49.8
23	64.5	66.4	69.0	68.9	65.4	66.3	66.9	61.4	53.9
24	59.0	58.3	64.6	65.7	71.1	72.0	61.4	65.4	60.4
25	61.5	53.3	66.3	71.7	73.3	72.5	64.3	61.8	63.1
26	54.2	58.6	67.1	68.4	72.8	71.7	63.5	59.7	60.6
27	60.3	59.6	68.5	69.7	70.6	68.7	63.5	62.4	56.5
28	57.6	59.4	70.9	69.7	70.6	68.0	61.5	58.7	59.3
29	60.0	56.3	68.3	65.8	67.8	65.8	60.7	56.7	57.4
30	53.3	55.1	64.8	63.7	65.1	63.3	59.8	56.0	56.4
31	50.0	52.7	61.4	60.6	63.1	62.6	57.6	54.1	53.8
32	46.3	47.1	56.1	59.3	60.8	60.0	56.0	52.5	51.6
33	45.0	46.0	54.5	56.6	58.0	57.7	54.8	51.3	50.3
34	45.0	45.8	51.7	57.1	58.3	56.5	50.6	47.6	45.6
35	45.0	45.0	47.8	52.8	52.3	50.6	45.9	45.0	45.0
36	45.0	45.0	45.1	47.0	47.7	47.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.3	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.1	45.0	45.0	45.0	45.0
A	64.9	64.2	73.6	73.9	76.0	74.4	63.7	66.3	65.3
D	69.3	69.5	76.9	78.4	80.3	79.4	73.9	71.0	69.7
OASPL	74.3	74.9	78.9	79.3	81.2	80.8	78.4	76.5	75.3
PNL	76.8	77.5	84.5	85.5	87.3	86.3	80.6	78.8	77.5
PNLT	78.3	77.5	84.5	85.6	88.3	86.3	80.6	78.8	77.5

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 1, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	58.9	61.5	55.2	58.6	1.8
15	55.5	59.1	51.6	55.0	2.0
16	60.3	62.2	58.5	60.5	1.1
17	58.5	60.7	56.4	58.3	1.3
18	58.4	60.2	55.8	58.3	1.1
19	59.2	61.2	56.4	59.0	1.3
20	72.7	73.8	71.5	72.7	.6
21	59.0	60.9	57.4	58.9	.7
22	56.4	57.9	54.2	56.4	.9
23	64.3	66.2	61.1	64.1	1.3
24	60.1	62.8	57.6	59.9	1.3
25	62.9	65.4	59.6	62.6	1.6
26	62.9	65.0	60.0	62.7	1.4
27	62.5	64.7	60.1	62.3	1.2
28	61.5	64.2	58.8	61.3	1.3
29	59.3	61.3	56.5	59.2	1.3
30	56.6	58.6	53.7	56.4	1.4
31	54.5	57.5	52.5	54.3	1.2
32	53.3	57.8	50.3	52.9	.8
33	53.2	56.9	49.0	52.8	2.0
34	50.0	54.0	46.0	49.4	2.2
35	47.4	51.8	45.0	46.9	1.8
36	45.3	47.2	45.0	45.2	.6
37	45.0	45.3	45.0	45.0	.1
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.3	46.8	46.0	46.3	.2
DBA	67.8	69.9	65.9	67.6	1.2
DBD	72.7	75.2	70.9	72.6	1.1
OASPL	75.6	76.7	74.3	75.6	.6
PNL	80.1	81.7	78.7	80.0	.8
PNLT	80.1	81.7	78.7	80.0	.8

270°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 2, 45 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	62.6	65.7	59.1	62.2	1.9
15	57.7	61.7	52.0	56.6	3.2
16	59.4	61.7	57.1	59.2	1.4
17	58.3	59.6	54.4	58.0	1.6
18	57.0	59.5	54.3	56.8	1.5
19	58.2	60.3	55.5	58.0	1.4
20	72.8	75.2	69.7	72.5	1.6
21	58.5	60.0	57.4	58.4	.7
22	56.4	58.6	53.1	56.1	1.5
23	65.8	69.1	62.5	65.4	1.7
24	59.3	62.5	54.8	58.9	2.0
25	62.2	64.8	57.6	61.9	1.8
26	61.5	64.3	57.2	60.9	2.3
27	62.5	66.3	58.5	61.9	2.3
28	61.7	65.6	57.3	61.0	2.5
29	59.3	63.1	52.4	58.6	2.7
30	58.3	62.1	50.6	57.2	3.4
31	56.9	61.2	47.3	55.5	3.9
32	55.8	61.1	45.6	53.9	4.5
33	55.1	60.9	47.1	53.1	4.4
34	52.9	58.4	45.2	50.9	4.3
35	51.1	57.2	45.0	49.2	3.9
36	47.6	52.9	45.0	46.7	2.5
37	45.3	47.4	45.0	45.3	.7
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.3	46.6	45.8	46.3	.2
DBA	68.3	72.4	63.7	67.5	2.7
DBD	73.7	77.6	69.4	72.9	2.6
OASPL	75.8	77.4	74.0	75.6	1.3
PNL	80.7	84.3	77.0	80.2	2.2
PNLT	80.7	84.3	77.0	80.2	2.2

225°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 3, 90 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.7	69.3	59.7	65.1	2.4
15	59.3	62.4	54.7	58.7	2.3
16	61.4	63.1	59.4	61.4	.9
17	63.5	66.7	58.2	63.0	2.2
18	64.2	69.6	58.5	62.8	3.2
19	63.8	67.5	59.7	63.3	2.1
20	74.9	76.3	73.0	74.8	.9
21	60.8	62.3	58.7	60.7	1.0
22	59.2	61.8	57.2	59.0	1.3
23	69.2	71.5	66.6	69.0	1.5
24	60.9	62.5	57.8	60.7	1.4
25	64.8	67.8	60.7	64.5	1.8
26	62.2	63.8	58.9	61.9	1.5
27	61.9	64.2	57.3	61.6	1.9
28	61.9	64.7	56.7	61.4	2.1
29	59.8	63.4	55.2	59.4	1.9
30	57.1	60.4	51.5	56.5	2.3
31	54.2	58.1	49.2	53.5	2.5
32	53.0	57.2	46.7	51.7	3.3
33	51.7	55.3	46.6	50.6	3.0
34	48.1	50.4	45.0	47.5	2.2
35	46.0	47.1	45.0	45.8	1.2
36	45.1	45.0	45.0	45.1	.3
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.4	46.8	46.1	46.4	.2
DBA	68.4	70.2	65.0	68.1	1.6
DBU	73.8	75.2	71.7	73.7	1.0
OASPL	77.8	78.4	76.4	77.8	.5
PNL	81.3	82.7	79.9	81.3	.7
PNLT	81.3	82.7	79.9	81.3	.7

180°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 4, 135 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	60.5	64.0	55.9	59.7	2.6
15	55.5	60.3	50.0	54.5	2.8
16	61.0	62.9	58.9	60.9	1.1
17	57.3	59.5	54.0	57.0	1.8
18	57.0	58.9	53.5	56.8	1.5
19	58.0	59.3	56.2	57.9	.9
20	70.2	71.4	68.8	70.1	.8
21	58.8	60.3	56.4	58.7	1.1
22	57.1	58.6	55.1	56.9	1.2
23	63.8	65.0	61.6	63.7	1.0
24	61.5	64.4	59.1	61.3	1.5
25	64.6	66.3	61.7	64.4	1.4
26	65.9	67.8	63.0	65.8	1.2
27	68.7	70.3	65.6	68.5	1.4
28	69.7	72.5	65.6	69.4	1.6
29	68.5	71.4	64.4	68.1	1.8
30	64.5	67.8	59.9	64.1	2.0
31	59.8	63.3	54.6	59.3	2.1
32	56.6	61.1	49.7	55.7	3.1
33	56.8	62.2	50.3	55.6	3.2
34	53.9	59.5	46.9	52.7	3.3
35	50.3	56.1	45.0	49.2	2.9
36	46.6	51.3	45.0	46.2	1.7
37	45.2	46.2	45.0	45.2	.3
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.5	46.8	45.8	46.5	.3
DBA	73.7	76.0	70.4	73.4	1.5
DBD	76.7	79.1	74.0	76.6	1.2
OASPL	77.5	79.1	75.6	77.4	.8
PNL	83.8	86.0	81.3	83.7	1.2
PNLT	83.8	86.0	81.3	83.7	1.2

135°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 5, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	62.0	65.1	56.4	61.5	2.3
15	56.0	59.1	52.8	55.6	1.7
16	59.0	60.8	56.8	58.9	1.1
17	57.4	60.2	54.6	57.2	1.4
18	57.9	61.0	55.6	57.7	1.4
19	56.9	57.8	55.7	56.8	.6
20	67.0	68.0	65.9	66.9	.6
21	57.3	59.7	55.0	57.2	1.1
22	56.6	58.7	54.4	56.5	1.3
23	61.8	64.7	58.8	61.5	1.8
24	60.0	64.6	56.9	59.5	2.1
25	62.9	68.3	59.0	62.1	2.5
26	63.1	67.5	59.9	62.6	1.9
27	64.6	67.7	62.4	64.4	1.5
28	65.5	68.2	63.0	65.3	1.2
29	64.4	69.0	60.1	63.9	2.0
30	62.2	66.6	57.8	61.4	2.6
31	59.3	64.4	54.0	58.4	2.7
32	55.8	60.6	48.8	54.9	2.8
33	55.4	61.4	49.0	54.4	2.8
34	52.2	59.3	46.1	50.7	3.3
35	48.5	55.1	45.0	47.3	2.8
36	45.8	50.2	43.0	45.5	1.4
37	45.1	45.9	43.0	45.1	.2
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.5	46.8	46.1	46.5	.2
DBA	70.6	74.3	67.5	70.2	1.8
DBD	74.1	77.7	71.2	73.7	1.8
OASPL	74.9	77.4	73.0	74.7	1.2
PNL	81.2	84.4	78.7	80.9	1.5
PNLT	81.2	84.4	78.7	81.0	1.5

90°
(Microphone Location
Relative to Helicopter)

TABLE A-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 6, 225 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	64.1	67.1	61.0	63.8	1.8
15	60.7	65.1	53.7	60.2	2.2
16	63.9	66.7	60.8	63.6	1.7
17	63.6	68.2	60.6	63.3	1.8
18	63.6	68.0	60.3	63.2	1.8
19	59.4	62.7	56.5	59.0	1.7
20	68.7	70.2	62.9	68.5	1.3
21	56.5	58.2	54.2	56.4	1.0
22	55.2	58.1	53.1	55.0	1.4
23	63.4	65.7	60.0	63.1	1.5
24	57.2	58.6	54.7	57.1	1.0
25	59.0	61.6	55.4	58.7	1.7
26	57.4	58.6	54.4	57.3	1.0
27	56.8	58.5	53.4	56.7	1.2
28	55.9	58.7	50.9	55.5	2.0
29	53.6	57.9	48.1	53.0	2.3
30	51.2	55.8	48.0	50.6	2.1
31	48.3	52.1	45.1	47.9	1.9
32	46.1	49.2	45.0	45.9	1.2
33	45.6	48.6	45.0	45.5	.9
34	45.0	45.1	45.0	45.0	.0
35	45.0	45.0	45.0	45.0	.0
36	45.0	45.0	45.0	45.0	.0
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.6	47.0	46.1	46.6	.2
DBA	62.4	64.9	59.7	62.2	1.3
DBD	68.5	70.1	66.7	68.4	.9
OASPL	74.2	75.9	72.6	74.1	.9
PNL	76.4	77.7	74.8	76.3	.7
PNLT	76.4	77.7	74.8	76.3	.7

45°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 7, 270 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.2	72.2	61.4	64.4	2.4
15	61.5	70.3	54.2	59.6	3.6
16	61.5	68.2	57.7	60.7	2.2
17	60.3	64.5	56.5	59.7	2.2
18	58.1	63.0	55.3	57.7	1.8
19	57.3	59.6	54.4	57.1	1.5
20	71.8	73.2	70.1	71.8	.8
21	55.2	56.2	53.5	55.2	.7
22	53.4	55.5	50.9	53.2	1.4
23	67.1	68.2	64.6	66.9	1.1
24	56.0	58.7	53.1	55.8	1.6
25	61.2	63.5	58.1	60.8	1.8
26	56.7	60.1	52.9	56.1	2.2
27	54.8	59.9	48.4	53.6	3.1
28	52.7	59.5	45.4	50.5	4.0
29	50.7	57.9	45.0	48.2	4.1
30	49.2	56.4	45.0	47.4	3.5
31	47.7	54.4	45.0	46.6	2.7
32	46.1	51.3	45.0	45.7	1.7
33	46.0	50.7	45.0	45.7	1.5
34	45.4	47.8	45.0	45.3	.7
35	45.0	45.5	45.0	45.0	.1
36	45.0	45.0	45.0	45.0	.0
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.6	46.9	46.3	46.6	.2
DBA	62.4	66.4	59.3	61.9	1.9
DBD	69.5	71.4	67.9	69.4	1.0
OASPL	74.8	77.3	73.7	74.7	.8
PNL	77.3	79.2	75.7	77.2	.9
PNLT	77.3	79.2	75.7	77.2	.9

0°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 8, 315 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	69.3	75.4	62.2	68.5	3.6
15	66.8	70.3	55.1	64.9	5.0
16	63.3	67.5	58.5	62.9	2.9
17	61.7	65.6	58.8	61.4	1.6
18	59.0	61.6	53.3	58.5	2.3
19	58.2	60.8	54.1	57.8	1.9
20	69.5	71.4	65.7	69.3	1.2
21	54.0	55.4	52.0	53.9	.8
22	51.8	53.7	50.1	51.7	1.1
23	62.1	65.2	56.9	61.6	2.1
24	52.8	55.3	49.8	52.4	1.7
25	55.9	59.3	50.4	55.2	2.6
26	51.6	54.1	48.2	51.3	1.8
27	49.8	51.9	45.4	49.5	1.7
28	49.2	52.0	46.1	49.0	1.4
29	47.1	49.7	45.0	47.0	1.2
30	46.7	49.1	45.0	46.6	1.2
31	46.4	48.4	45.0	46.3	1.1
32	45.8	49.2	45.0	45.7	1.1
33	46.2	51.4	45.0	45.8	1.6
34	45.2	47.1	45.0	45.2	.6
35	45.0	45.4	45.0	45.0	.1
36	45.0	45.0	45.0	45.0	.0
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.4	46.9	45.3	46.3	.4
DBA	58.8	60.5	56.5	58.6	1.0
DBD	66.8	68.1	65.6	66.7	.7
OASPL	74.6	76.8	71.8	74.3	1.5
PNL	75.0	75.7	74.0	75.0	.5
PNLT	75.1	76.7	74.0	75.0	.6

315°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 1, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.4	75.5	59.8	65.2	3.7
15	64.8	75.3	52.8	57.7	6.1
16	65.0	74.7	56.5	61.2	4.3
17	62.8	72.6	54.7	58.7	4.5
18	62.1	72.0	52.7	57.8	4.6
19	62.3	71.2	56.5	59.9	3.5
20	70.2	72.2	66.8	69.9	1.4
21	60.5	68.1	54.6	58.8	3.3
22	61.8	67.6	57.2	60.9	2.5
23	66.7	70.2	61.2	66.2	2.4
24	65.3	68.3	60.5	64.9	1.9
25	66.8	69.6	62.1	66.3	2.1
26	69.3	73.3	64.4	68.9	1.9
27	69.0	72.1	61.4	68.6	2.0
28	67.0	70.1	59.9	66.6	2.1
29	63.5	66.4	56.9	63.0	2.1
30	58.9	63.8	52.1	57.8	3.0
31	57.6	63.1	52.6	56.1	3.4
32	58.1	64.3	54.7	57.4	2.4
33	58.8	63.9	54.6	58.2	2.2
34	57.1	61.5	52.9	56.6	2.0
35	52.5	56.5	48.7	51.9	2.2
36	49.8	57.4	45.0	48.3	3.0
37	45.8	50.2	45.0	45.5	1.3
38	46.6	53.5	45.0	45.7	2.2
39	45.9	51.0	45.0	45.5	1.5
40	45.1	45.7	45.0	45.1	.2
DBA	72.4	75.3	67.2	72.1	1.7
DBD	76.8	80.3	73.9	76.6	1.4
OASPL	78.5	83.2	76.1	78.0	1.8
PNL	84.2	87.0	81.8	84.0	1.4
PNLT	84.5	88.0	81.8	84.2	1.5

90°

(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 2, 45 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	69.3	72.2	66.1	69.0	1.6
15	63.8	68.7	52.6	62.1	4.4
16	63.6	69.1	59.3	62.9	2.3
17	61.7	63.2	59.2	61.5	1.3
18	58.7	61.9	55.2	58.3	1.7
19	58.6	59.8	56.7	58.6	.9
20	70.9	72.8	67.8	70.8	1.0
21	60.9	62.9	57.6	60.6	1.6
22	61.7	64.5	59.4	61.5	1.4
23	70.1	72.1	67.0	69.9	1.3
24	66.0	69.4	63.1	65.8	1.5
25	70.3	73.4	65.4	69.6	2.6
26	71.2	73.7	66.7	70.8	2.1
27	68.9	71.8	65.0	68.6	1.6
28	66.5	69.1	63.5	66.3	1.5
29	62.6	65.6	59.1	62.3	1.6
30	63.1	67.0	54.9	61.6	3.8
31	65.3	69.7	54.8	63.5	4.3
32	65.9	70.4	56.0	64.7	3.6
33	63.3	66.3	55.6	62.5	3.0
34	60.0	63.0	54.1	59.4	2.5
35	55.4	59.2	49.7	54.7	2.6
36	49.8	52.0	45.5	49.4	2.2
37	45.3	46.3	45.0	45.3	.4
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	74.8	77.5	70.0	74.3	2.2
DBD	79.6	82.5	75.0	79.1	2.2
OASPL	79.9	81.9	77.7	79.8	1.1
PNL	86.6	89.4	82.3	86.2	2.1
PNLT	86.6	89.4	82.3	86.2	2.1

45°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 3, 90 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.9	75.4	63.3	66.9	3.7
15	65.1	73.3	49.8	56.9	7.2
16	65.5	73.3	55.5	60.6	5.5
17	65.3	72.9	57.3	61.7	4.7
18	63.4	71.3	53.2	58.4	5.5
19	63.9	71.3	55.6	60.0	4.9
20	74.1	77.3	72.3	73.9	1.2
21	62.2	68.9	55.0	59.2	4.3
22	60.9	68.1	54.4	57.8	4.3
23	69.9	73.5	67.2	69.6	1.4
24	62.7	67.6	59.7	61.9	2.4
25	67.1	71.9	64.0	66.6	1.9
26	66.2	70.0	63.6	65.9	1.6
27	63.4	66.7	61.2	63.1	1.4
28	61.0	64.3	57.1	60.6	2.0
29	57.4	62.5	50.9	56.1	3.3
30	55.1	59.9	47.4	53.2	4.2
31	56.9	62.4	49.4	55.0	4.0
32	58.8	63.4	53.9	57.7	3.0
33	58.5	62.4	54.3	58.0	2.1
34	55.0	59.7	49.7	54.5	2.1
35	51.6	58.0	45.3	49.7	4.0
36	49.6	57.0	45.0	47.3	3.7
37	46.8	53.6	45.0	45.9	2.3
38	47.5	55.2	45.0	45.9	2.7
39	46.4	52.7	45.0	45.7	2.1
40	47.6	55.7	45.0	45.9	2.9
DBA	69.5	72.1	67.6	69.3	1.4
DBD	75.3	78.0	73.9	75.3	1.2
OASPL	78.8	84.0	76.3	78.0	2.3
PNL	82.9	87.0	80.3	82.4	2.0
PNLT	83.4	88.7	80.3	82.7	2.3

0°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 4, 135 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.3	68.2	59.8	64.2	2.9
15	60.9	67.1	53.6	59.3	3.7
16	62.2	64.1	59.3	61.9	1.7
17	58.6	60.9	55.1	58.2	1.9
18	55.9	57.5	52.9	55.7	1.2
19	61.1	62.7	58.7	61.0	1.1
20	75.9	76.8	74.7	75.8	.6
21	58.0	60.1	55.5	57.8	1.3
22	57.5	59.5	53.8	57.3	1.4
23	67.7	69.5	65.0	67.6	1.0
24	61.7	62.9	59.3	61.6	.9
25	65.6	67.3	62.5	65.4	1.2
26	64.9	68.5	61.8	64.6	1.6
27	65.1	67.3	61.2	64.9	1.4
28	63.6	66.3	58.7	63.2	2.2
29	57.9	60.3	55.1	57.6	1.5
30	56.0	58.5	52.3	55.5	2.0
31	57.7	60.7	52.5	57.1	2.4
32	59.9	64.0	55.4	59.3	2.4
33	60.0	64.2	53.9	59.3	2.7
34	57.2	62.1	51.7	56.3	2.9
35	53.0	58.5	49.1	52.3	2.3
36	49.9	53.4	46.4	49.4	2.0
37	45.2	46.8	45.0	45.2	.4
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	70.6	73.2	68.0	70.3	1.5
DBD	76.6	79.7	74.3	76.4	1.4
OASPL	78.4	79.4	77.1	78.3	.6
PNL	83.4	86.0	81.4	83.3	1.2
PNLT	83.5	86.0	81.4	83.3	1.2

315°

(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 5, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.3	69.3	59.1	65.8	2.3
15	61.5	66.0	54.6	60.4	3.4
16	62.0	63.3	60.0	61.9	.9
17	61.5	63.8	56.8	61.1	2.0
18	56.9	58.8	54.2	56.7	1.4
19	59.0	61.6	57.4	58.9	...
20	75.4	76.3	74.0	75.3	.6
21	61.3	62.9	59.9	61.3	.7
22	59.6	61.3	58.5	59.5	.7
23	68.4	70.4	66.7	68.2	1.0
24	63.9	65.6	61.1	63.6	1.3
25	69.0	71.3	65.5	68.7	1.7
26	70.4	75.1	66.5	69.7	2.3
27	68.7	72.9	65.4	68.3	1.8
28	66.1	67.5	63.6	66.0	1.0
29	61.4	63.0	58.3	61.2	1.5
30	62.1	66.6	56.3	61.4	2.4
31	64.2	68.9	58.5	63.5	2.5
32	66.6	72.9	62.5	65.7	2.5
33	64.4	68.1	60.8	63.9	1.9
34	61.9	65.3	58.9	61.5	1.7
35	57.0	60.8	53.8	56.6	1.7
36	53.0	57.9	50.3	52.6	1.9
37	47.1	50.9	45.1	46.8	1.6
38	45.0	45.1	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	74.8	78.4	72.3	74.5	1.5
DBD	80.1	83.3	78.2	79.9	1.3
OASPL	79.7	81.1	78.4	79.7	.8
PNL	87.1	90.6	84.8	86.8	1.5
PNLT	87.5	92.1	84.8	87.1	1.8

270°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 6, 225 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.6	68.6	63.9	66.5	1.1
15	61.3	64.0	56.6	60.9	2.0
16	63.9	67.0	59.3	63.5	1.8
17	62.5	65.3	60.5	62.3	1.3
18	62.5	67.4	57.5	61.6	2.6
19	63.4	66.4	61.3	63.2	1.3
20	76.1	77.4	74.1	76.1	.9
21	62.6	63.8	61.3	62.5	.8
22	59.9	62.3	57.7	59.7	1.3
23	69.0	72.2	65.1	68.7	1.4
24	65.1	66.5	62.7	65.0	.8
25	71.3	73.8	67.9	71.0	1.6
26	71.6	72.7	69.6	71.5	1.0
27	71.5	73.3	69.4	71.5	.9
28	71.0	72.9	68.9	70.8	1.1
29	65.9	68.7	63.3	65.6	1.5
30	62.9	66.2	58.1	62.2	2.5
31	64.1	67.4	54.8	62.9	3.6
32	67.4	71.0	59.8	66.1	3.5
33	66.6	70.0	60.2	65.7	2.9
34	64.6	67.9	59.6	64.0	2.5
35	59.7	63.0	53.7	59.1	2.6
36	55.4	59.3	50.1	54.6	2.6
37	48.3	52.1	45.0	47.9	1.8
38	45.2	46.0	45.0	45.2	.3
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	76.9	79.0	73.4	76.6	1.6
DBD	82.2	84.4	79.1	81.9	1.6
OASPL	81.3	82.6	79.6	81.2	.7
PNL	89.0	91.2	85.5	88.7	1.7
PNLT	89.0	91.2	85.5	88.7	1.7

225°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 7, 270 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.2	69.1	61.9	65.7	2.2
15	54.8	56.5	51.1	54.5	1.4
16	58.8	60.8	56.7	58.7	1.3
17	60.3	62.7	57.1	60.0	1.7
18	56.7	58.3	55.0	56.6	1.1
19	59.1	60.3	57.8	59.1	.7
20	74.3	74.6	73.9	74.3	.2
21	58.8	59.8	58.1	58.8	.5
22	55.9	58.0	52.8	55.7	1.3
23	67.4	70.0	65.0	67.1	1.6
24	60.5	64.3	56.9	60.0	2.0
25	63.6	66.3	60.2	63.2	1.9
26	63.2	65.8	57.9	62.6	2.3
27	62.3	64.2	57.7	61.9	2.0
28	60.7	64.2	56.8	60.3	1.8
29	56.0	59.2	52.4	55.7	1.8
30	52.2	53.6	48.2	51.6	2.0
31	52.8	53.6	46.9	51.3	3.0
32	54.6	55.8	48.7	53.3	3.1
33	55.6	58.2	49.5	54.7	2.8
34	55.4	58.6	49.0	54.5	2.8
35	49.9	54.6	45.2	49.2	2.5
36	46.3	49.0	45.0	46.1	1.1
37	45.1	45.7	45.0	45.1	.2
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	67.6	69.5	63.8	67.3	1.7
DBD	73.7	75.4	70.6	73.5	1.4
OASPL	76.8	77.8	75.8	76.8	.6
PNL	81.2	84.1	79.0	81.0	1.1
PNLT	81.8	84.1	79.0	81.5	1.5

180°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 8, 315 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.4	71.6	64.0	67.0	1.8
15	63.3	66.6	56.0	62.5	2.7
16	61.5	63.5	56.3	61.2	1.7
17	59.1	61.8	57.3	59.0	1.1
18	55.5	57.8	53.5	55.3	1.2
19	59.0	60.9	56.8	58.9	1.1
20	72.1	73.2	70.6	72.1	.8
21	59.9	61.5	57.9	59.9	.7
22	60.3	64.2	55.9	59.6	2.4
23	68.9	70.8	66.0	68.7	1.1
24	64.7	68.7	62.1	64.2	2.0
25	67.8	70.3	65.8	67.6	1.2
26	69.6	72.4	67.0	69.3	1.4
27	68.4	71.1	66.1	68.2	1.4
28	65.7	68.7	62.7	65.4	1.5
29	59.8	64.5	56.0	59.2	2.1
30	56.1	59.5	52.6	55.7	1.9
31	58.3	62.9	51.8	57.5	2.7
32	60.3	64.2	53.0	59.6	2.7
33	59.7	62.0	55.4	59.3	2.0
34	57.3	60.5	52.4	56.8	2.1
35	52.5	55.6	48.8	52.1	1.9
36	47.8	51.8	45.2	47.4	1.6
37	45.0	45.5	45.0	45.0	.1
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	72.2	74.6	70.2	72.1	1.2
DBD	77.2	79.0	75.6	77.0	1.0
OASPL	78.4	79.7	77.2	78.3	.7
PNL	84.3	86.5	82.7	84.1	1.0
PNLT	84.3	86.5	82.7	84.1	1.0

135°

(Microphone Location
Relative to Helicopter)

TABLE A-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 41, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.3	78.2	58.9	73.0	4.0
15	74.1	79.5	64.4	72.8	3.6
16	71.5	76.1	60.7	70.3	3.7
17	67.3	72.1	54.2	65.6	4.6
18	66.6	70.9	55.0	65.1	4.2
19	61.1	65.2	50.9	60.1	3.2
20	59.1	62.5	47.7	58.0	3.8
21	57.2	61.5	46.5	55.9	3.8
22	58.4	60.4	56.2	58.3	1.1
23	64.8	66.6	61.9	64.6	1.2
24	58.3	61.6	54.7	58.0	1.6
25	56.3	58.8	53.8	56.1	1.3
26	62.8	66.1	57.3	62.4	2.0
27	60.0	63.1	55.1	59.6	1.8
28	64.1	67.2	60.0	63.7	1.9
29	62.7	65.6	58.3	62.4	1.7
30	61.0	63.3	57.8	60.8	1.5
31	59.0	61.4	56.6	58.8	1.3
32	56.6	59.1	52.9	56.3	1.5
33	54.3	56.3	51.1	54.1	1.4
34	50.4	52.5	47.6	50.2	1.3
35	46.1	47.6	45.0	46.0	.8
36	45.0	45.0	45.0	45.0	.0
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.1	45.0	45.0	.0
40	47.3	47.7	46.8	47.3	.2
DBA	69.1	71.6	65.2	68.8	1.5
DBD	73.0	75.2	69.5	72.8	1.3
OASPL	79.6	82.9	74.6	79.2	1.9
PNL	80.2	82.5	77.0	80.0	1.2
PNLT	80.5	83.2	77.9	80.3	1.4

270°

(Microphone Location
Relative to Helicopter)

TABLE A-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 41, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	72.6	76.3	62.3	71.7	3.2
15	69.4	74.1	57.1	57.9	4.2
16	69.5	73.9	60.7	68.4	3.4
17	63.8	67.1	53.1	62.5	3.8
18	61.2	63.7	55.6	60.7	2.2
19	56.1	58.7	50.7	55.6	2.0
20	54.3	57.0	50.4	53.9	2.0
21	55.0	57.2	51.5	54.8	1.4
22	58.8	61.1	55.8	58.6	1.4
23	65.1	68.0	60.3	64.7	2.0
24	56.9	60.2	52.3	56.4	2.1
25	58.0	61.8	54.5	57.5	1.9
26	64.1	67.9	61.2	63.7	1.9
27	60.1	63.4	57.0	59.7	1.8
28	62.8	66.7	58.0	62.2	2.1
29	63.1	66.9	59.7	62.7	1.6
30	62.4	65.5	60.2	62.2	1.2
31	60.4	63.5	57.9	60.2	1.3
32	56.4	58.7	54.4	56.2	1.2
33	53.6	56.0	51.4	53.5	1.0
34	50.4	52.6	47.7	50.3	1.1
35	45.7	47.0	45.0	45.7	.6
36	45.0	45.0	45.0	45.0	.0
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	69.2	72.3	66.9	69.0	1.3
DBD	72.5	75.1	70.3	72.4	1.2
OASPL	77.9	80.2	72.4	77.5	2.0
PNL	79.9	82.5	78.0	79.8	1.1
PNLT	79.9	82.5	78.0	79.8	1.1

90°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 300 C

OCTOBER 14 1976

EVENT 41, 0 DEGREES, CENTERLINE MICROPHONE (SOFT SITE)

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	71.7	76.0	62.9	70.7	3.3
15	64.9	69.2	61.3	64.4	2.0
16	69.0	73.5	59.3	67.6	3.9
17	63.7	68.9	55.4	62.3	3.8
18	58.1	61.4	53.8	57.6	2.1
19	58.0	59.4	55.4	57.8	1.3
20	67.4	68.8	66.3	67.3	.6
21	61.0	63.5	57.2	60.6	1.8
22	59.6	61.8	56.1	59.3	1.9
23	61.0	62.1	58.3	60.9	.9
24	62.4	65.2	58.6	62.2	1.6
25	63.6	65.9	60.5	63.4	1.6
26	65.2	68.3	61.5	64.8	2.0
27	63.5	66.4	59.6	63.2	1.6
28	64.4	67.6	61.4	64.1	1.5
29	64.0	66.8	61.7	63.8	1.3
30	63.6	66.4	61.5	63.4	1.2
31	62.0	64.1	60.3	61.9	.9
32	59.8	62.1	57.5	59.7	1.0
33	57.1	59.6	55.5	56.9	1.0
34	54.4	57.7	52.5	54.2	1.3
35	48.4	50.8	46.6	48.3	.9
36	45.3	46.5	45.0	45.2	.4
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	71.3	73.8	68.9	71.2	1.2
DBD	74.6	77.1	72.3	74.5	1.1
OASPL	78.8	81.2	75.1	78.4	1.9
PNL	82.0	84.0	79.9	81.9	1.0
PNLT	82.0	84.0	79.9	81.9	1.0

(Helicopter Location
Directly Overhead)

TABLE A-VIII
Helicopter Noise Level Data
HUGHES 300C OCTOBER 14, 1976

MAX RMS Noise Level - dBA re 20 μ Pa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST		MICROPHONE OFFSET TO THE EAST	
		150 M	75 M	75 M	150 M
5 FE. HOVER 0°	1 9	69.0 69.0	82.0 84.5	83.3 84.5	76.0 78.3
		(270°)		(90°)	
5 FE. HOVER 45°	2 10	73.6 70.5	84.5 84.5	84.5 82.8	77.8 77.3
		(225°)		(45°)	
5 FE. HOVER 90°	3 11	74.0 71.0	84.5 84.8	88.0 85.5	72.0 70.8
		(180°)		(0°)	
5 FE. HOVER 135°	4 12	77.4 74.0	88.8 87.3	88.0 87.5	73.0 73.0
		(135°)		(315°)	
5 FE. HOVER 180°	5	74.3	83.5	82.0	78.5
		(90°)		(270°)	
5 FE. HOVER 225°	6	64.5	78.5	73.5	68.5
		(45°)		(225°)	
5 FE. HOVER 270°	7	66.0	80.5	82.0	71.3
		(0°)		(180°)	
5 FE. HOVER 315°	8	71.0	83.0	86.0	75.8
		(315°)		(135°)	
500 FE. HOVER 0°	41	72.0	73.5 *	73.5 *	73.5
		(270°)		(90°)	
500 FE. HOVER 270°	42	71.5	75.5 *	74.8 *	73.5
		(0°)		180°	

* Microphone at centerline

TABLE A-VIII
Helicopter Noise Level Data
Hughes 300-C

October 14, 1976

MAX RMS Noise Level - dBA @ 20 m Pa						
HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST		MICROPHONE OFFSET TO THE EAST		
		150M	CENTER LINE	CENTER LINE	150M	
3° GLIDE SLOPE	—	—	—	—	—	
6° GLIDE SLOPE	43	74.8	80.0	81.0	70.0	
	44	73.0	72.8	72.0	67.8	
	45	68.3	69.0	68.8	71.3	
9° GLIDE SLOPE	58	72.5	—	77.3	71.8	
69 Mph LEVEL FLYOVER	26	66.0	69.8	69.0	67.8	
	27	70.5	69.0	71.5	68.3	
	28	69.8	71.0	71.8	67.3	
76 Mph LEVEL FLY OVER	29	69.3	71.3	72.0	68.8	
	30	68.8	71.0	67.5	67.0	
82 Mph LEVEL FLYOVER	31	68.3	72.5	67.8	69.0	
	33	68.5	73.3	70.0	71.5	
	34	68.8	69.3	70.8	67.5	

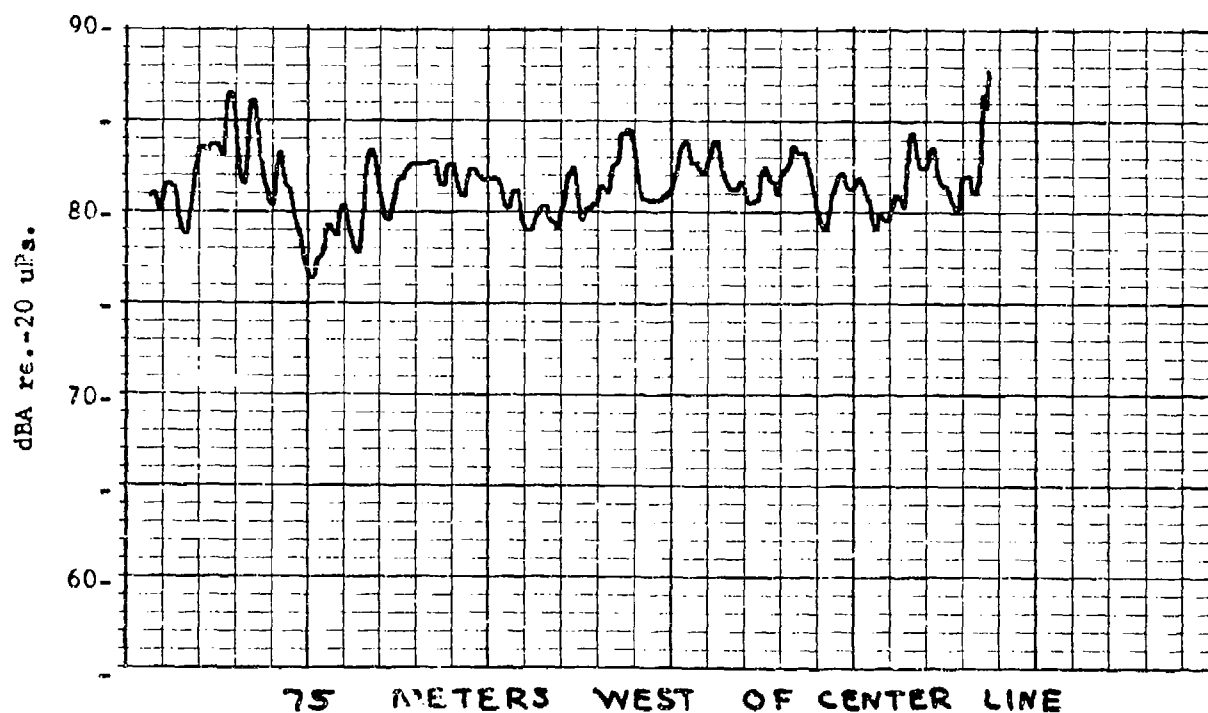
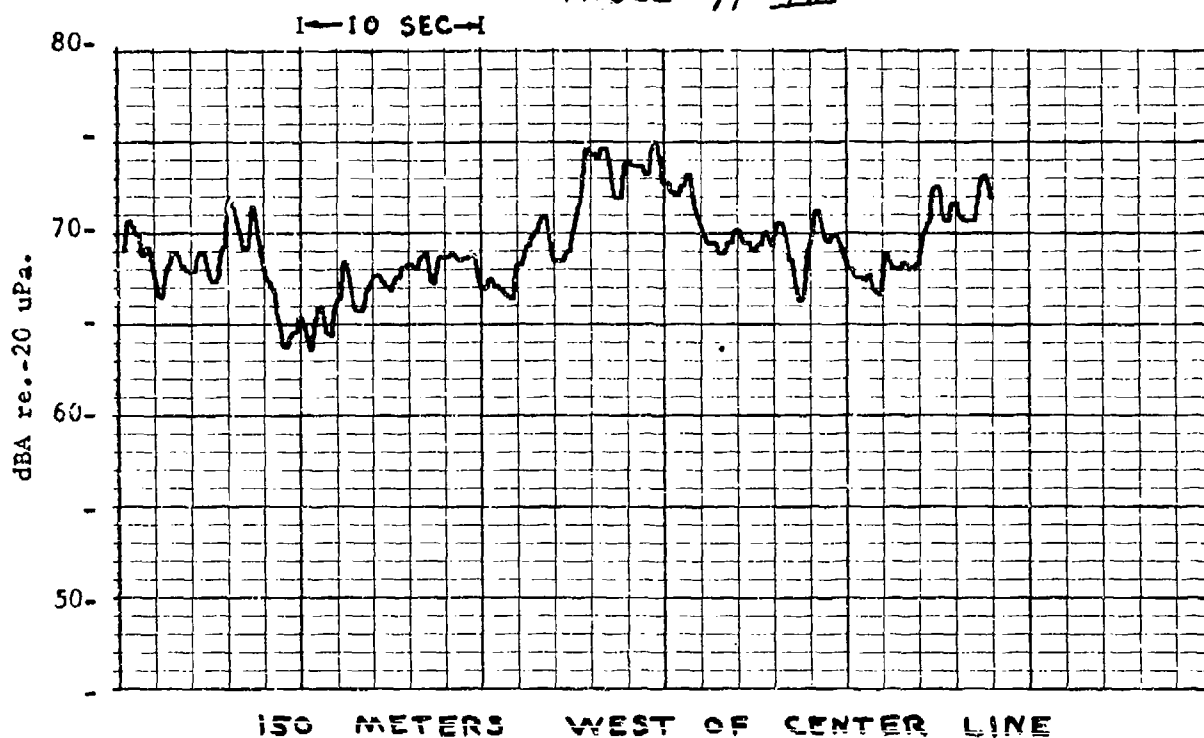
TABLE A-VIII
Helicopter Noise Level Data
Hughes 300C

October 14, 1976

max. RMS Noise Level - dBA re 20 μ P

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M CENTER LINE		MICROPHONE OFFSET TO THE EAST CENTER LINE 150M	
82 mph	35		68.5	67.0	67.3
LEVEL	36		70.0	68.5	67.3
FLYOVER	37		68.0	67.8	66.5
90 mph	40		70.2	68.0	69.0
LEVEL					69.5
FLYOVER					
LEVEL					
FLYOVER					
LEVEL					
FLYOVER					
LEVEL					
FLYOVER					
LEVEL					
FLYOVER					

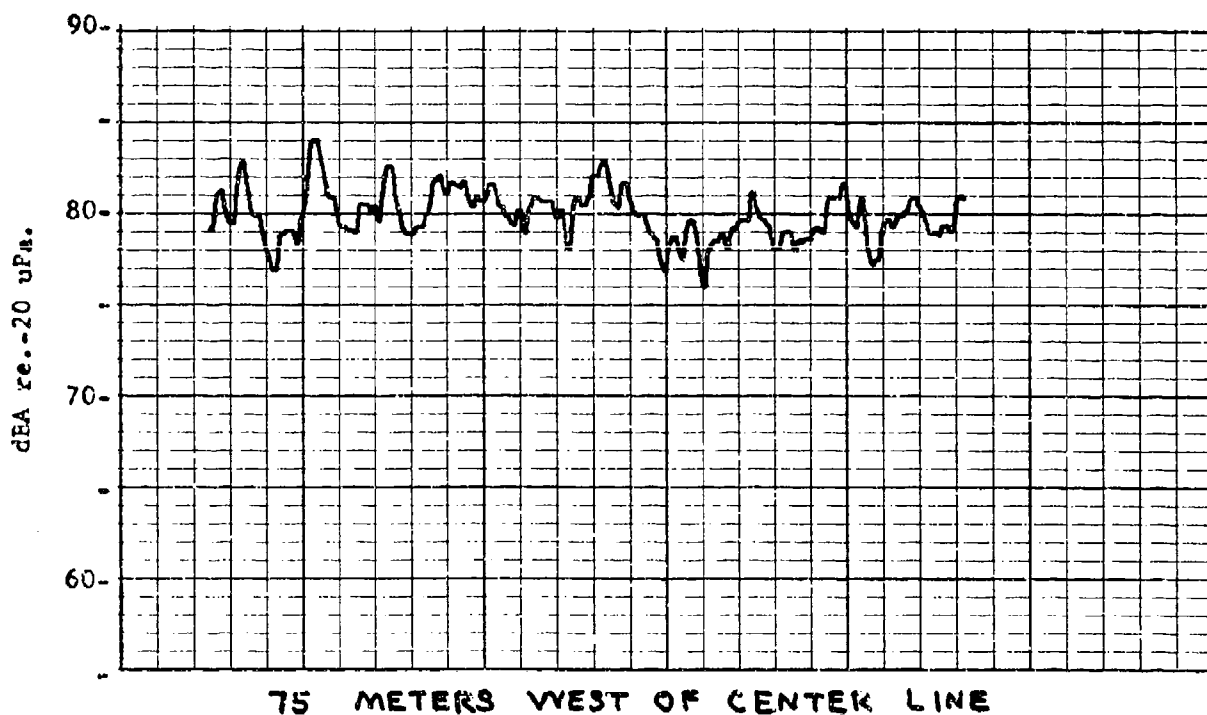
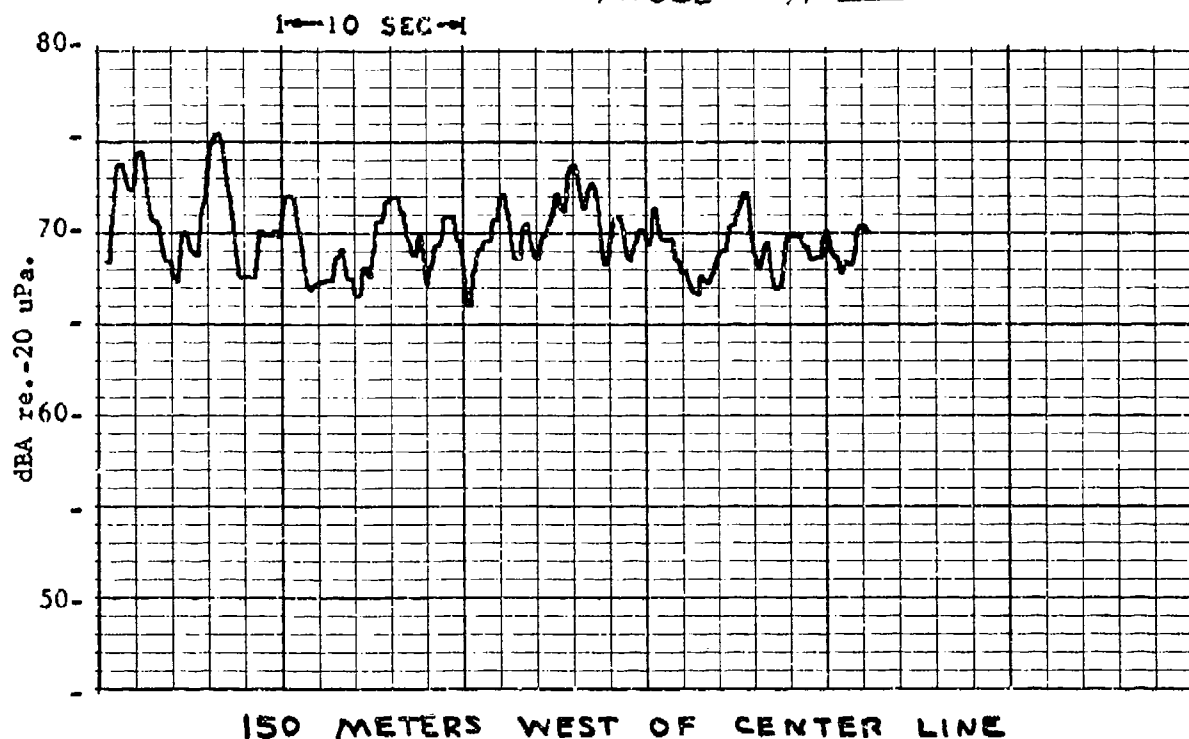
TABLE A-IX



NOISE LEVEL TIME HISTORIES
 HUGHES 300 C HELICOPTER
 90° HOVER - 5 Ft.

RUN 3

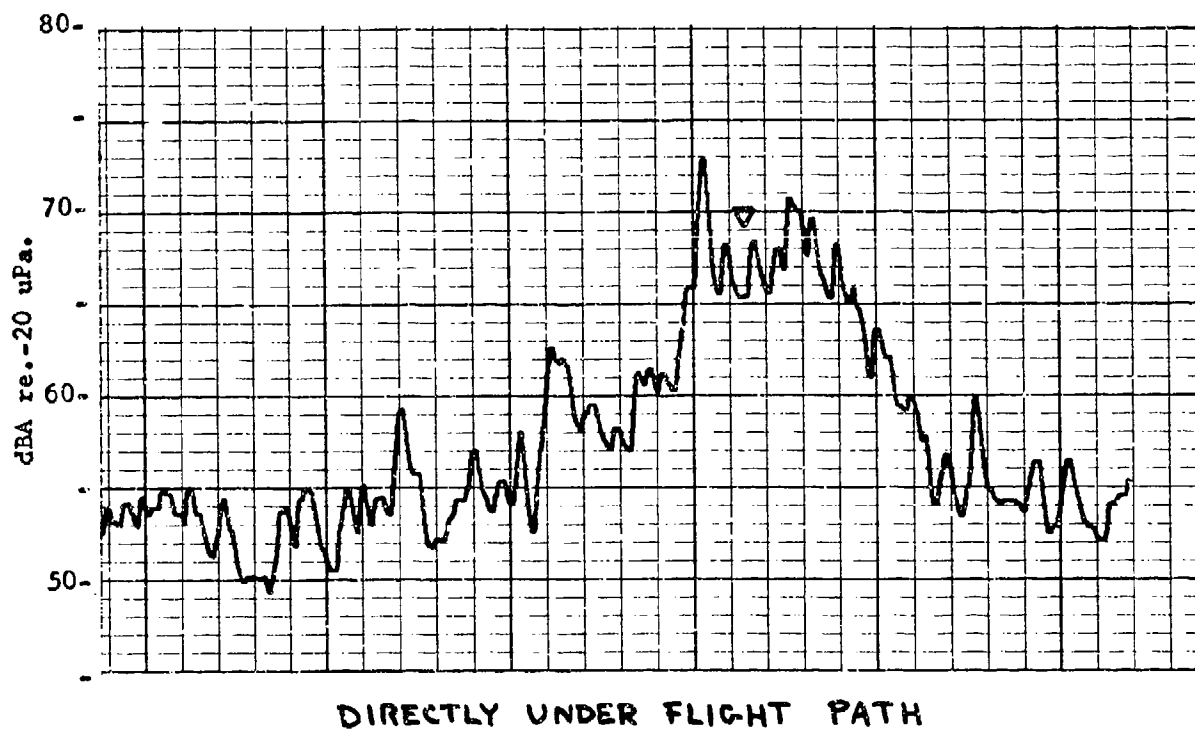
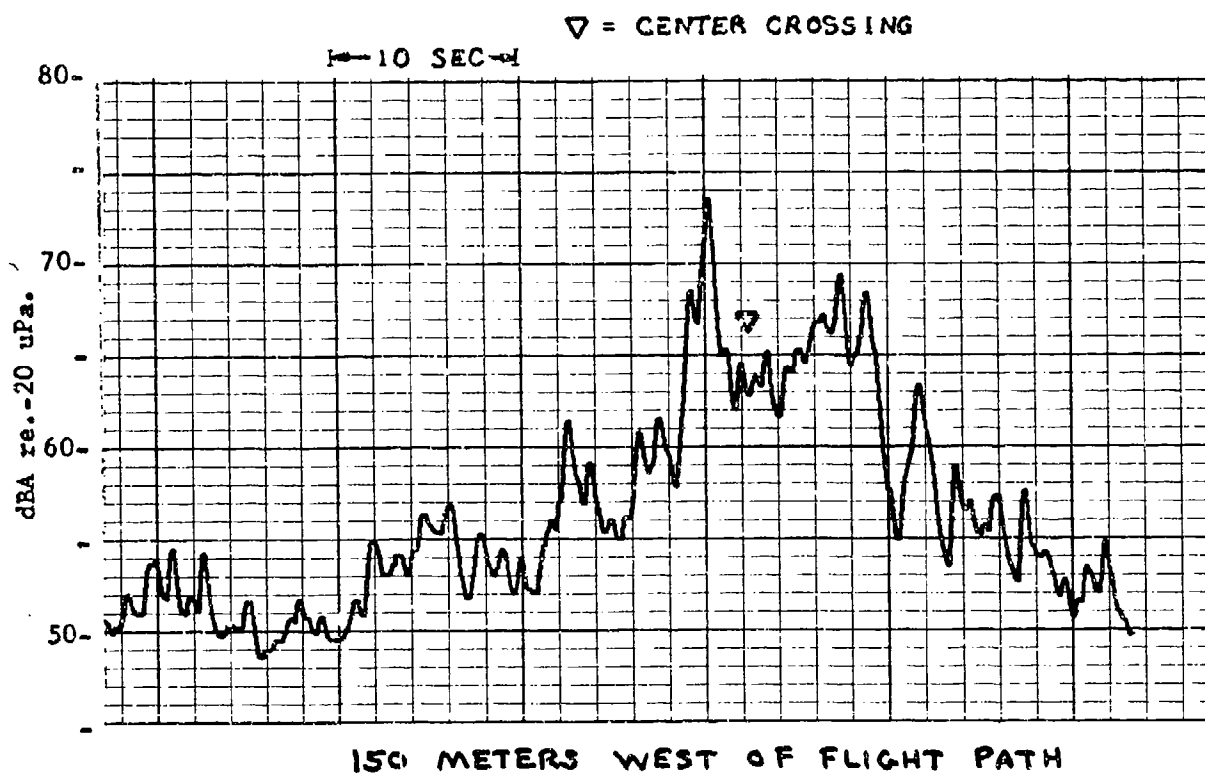
TABLE 4-IX



NOISE LEVEL TIME HISTORIES
 HUGHES 300 C HELICOPTER
 180° HOVER - 5 FT.

RUN 5

TABLE A-IX

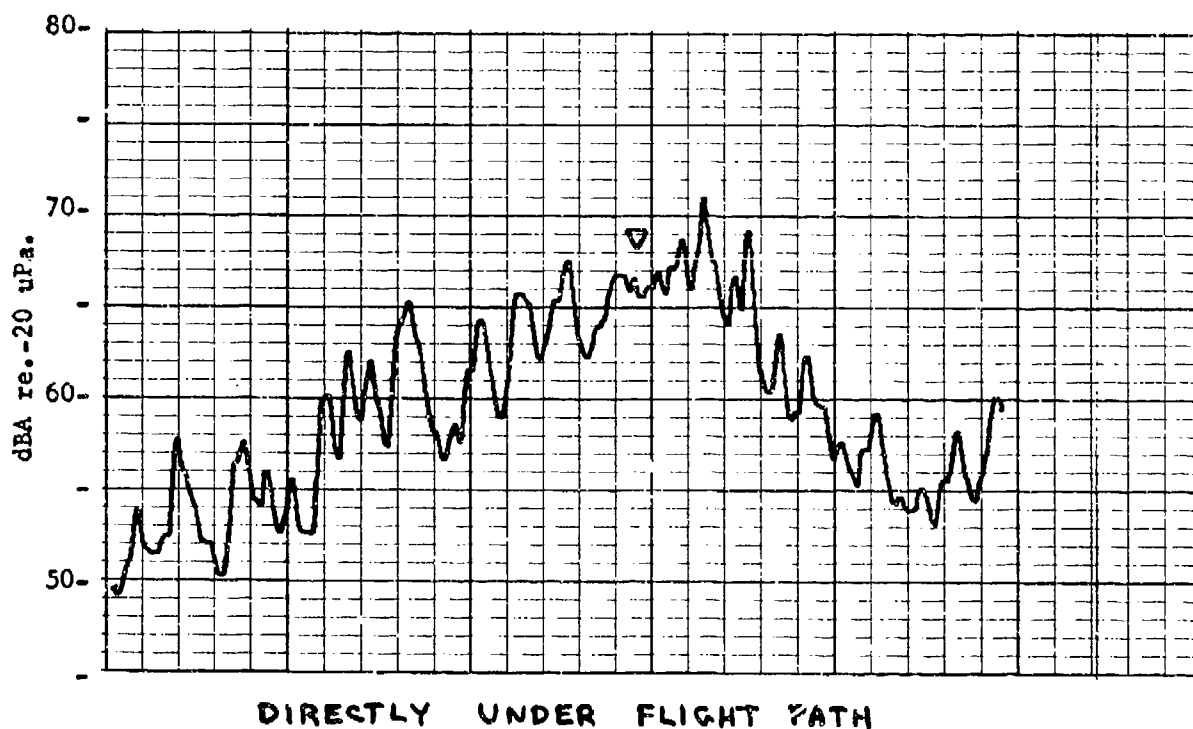
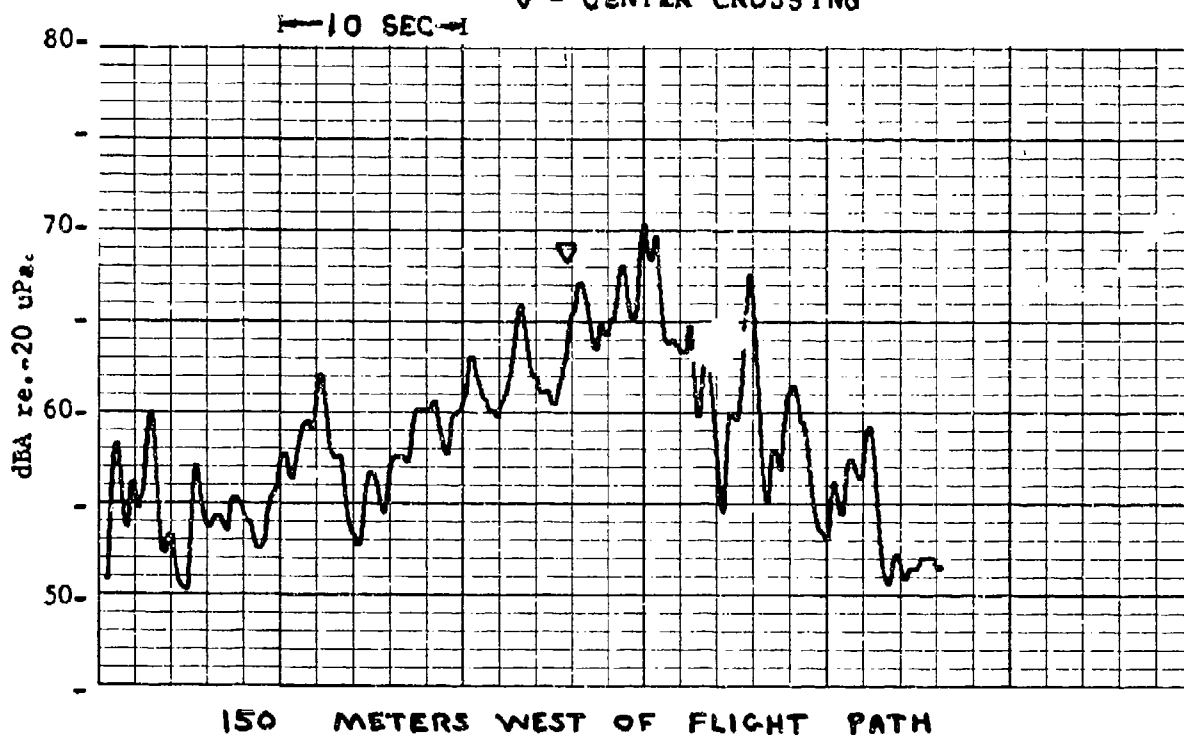


NOISE LEVEL TIME HISTORIES
HUGHES 300 C HELICOPTER
6° APPROACH

RUN 44

TABLE A-IX

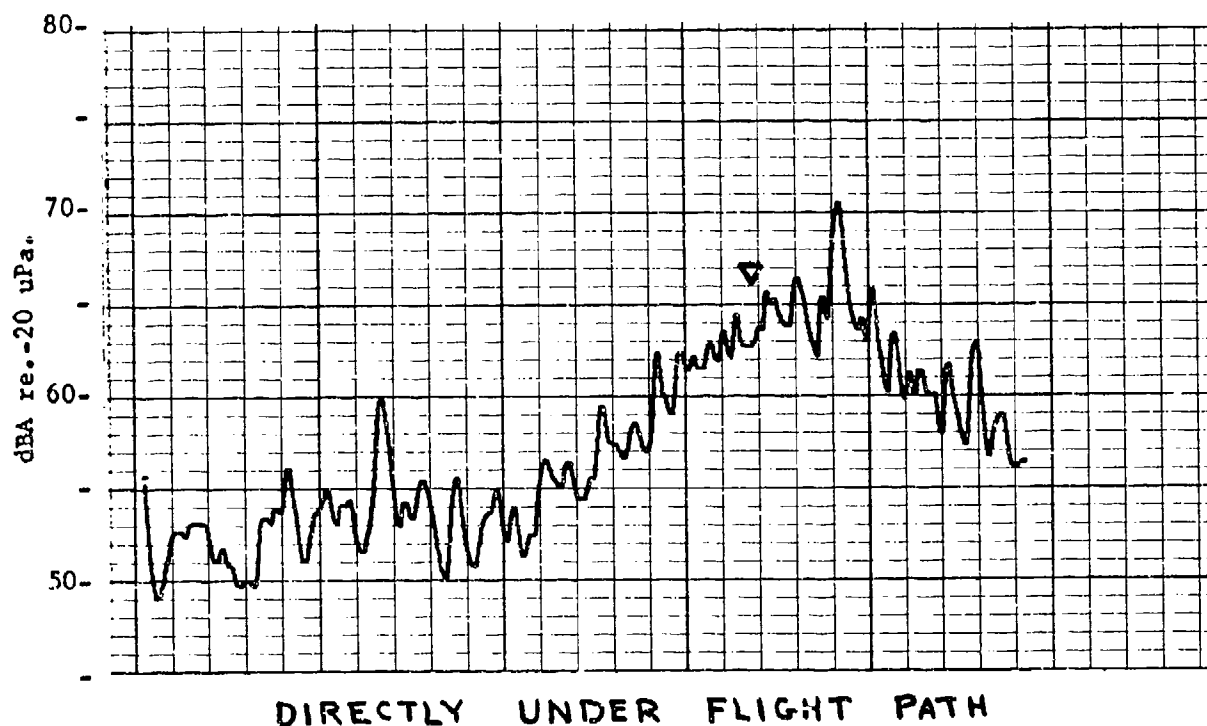
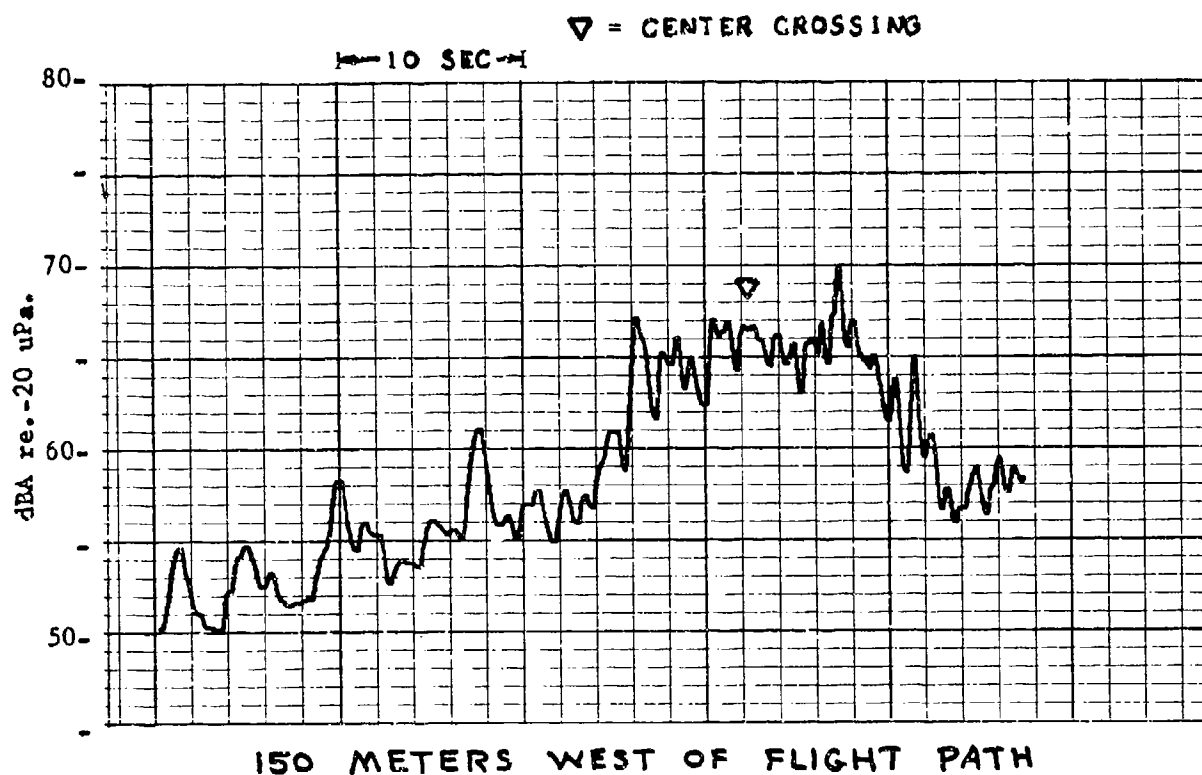
▽ = CENTER CROSSING



NOISE LEVEL TIME HISTORIES
HUGHES 300 C HELICOPTER
LEVEL FLYOVER - 60 MPH

RUN 20

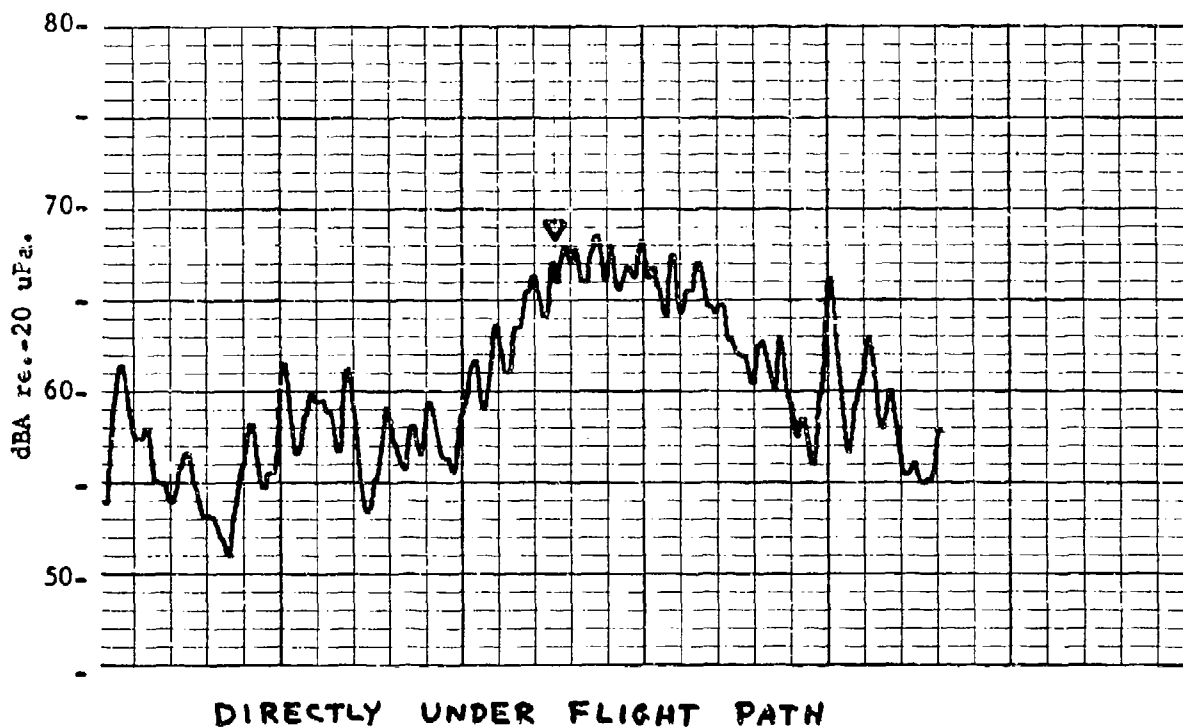
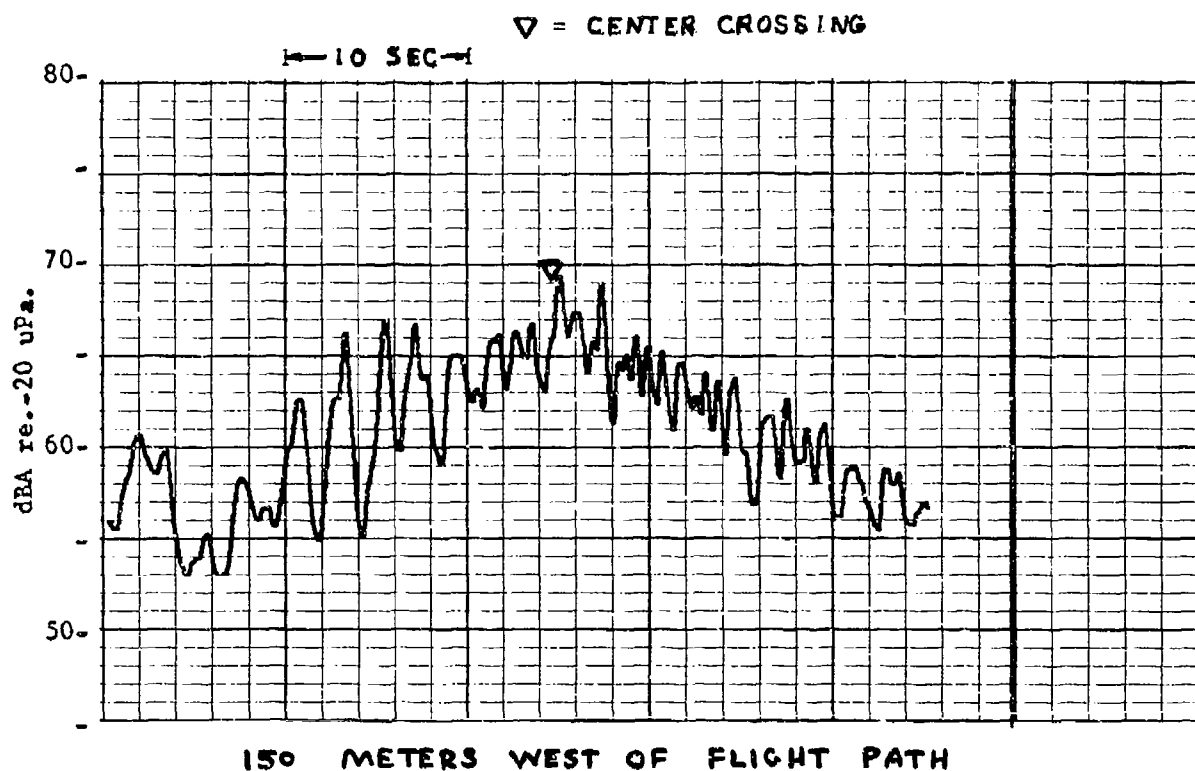
TABLE A-IX



NOISE LEVEL TIME HISTORIES
HUGHES 300 C HELICOPTER
LEVEL FLYOVER - 69 MPH

RUN 29

TABLE A-IX

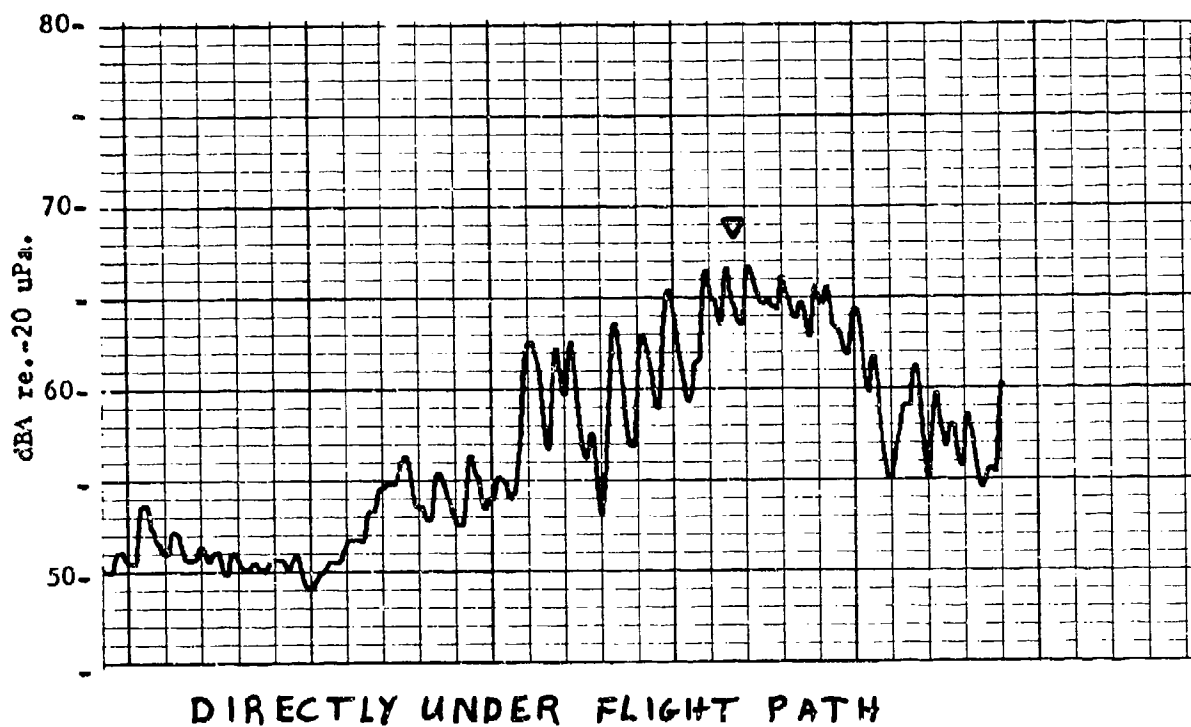
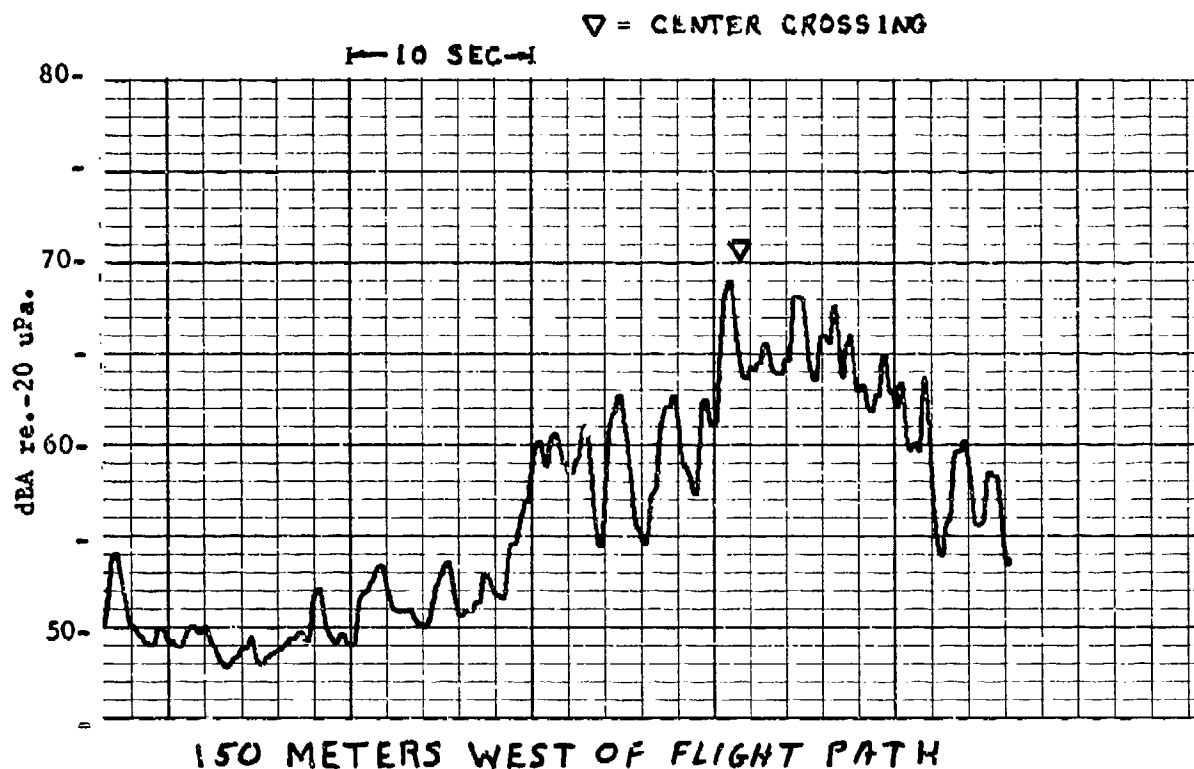


NOISE LEVEL TIME HISTORIES

HUGHES 300C HELICOPTER
LEVEL FLYOVER - 76 MPH

RUN 34

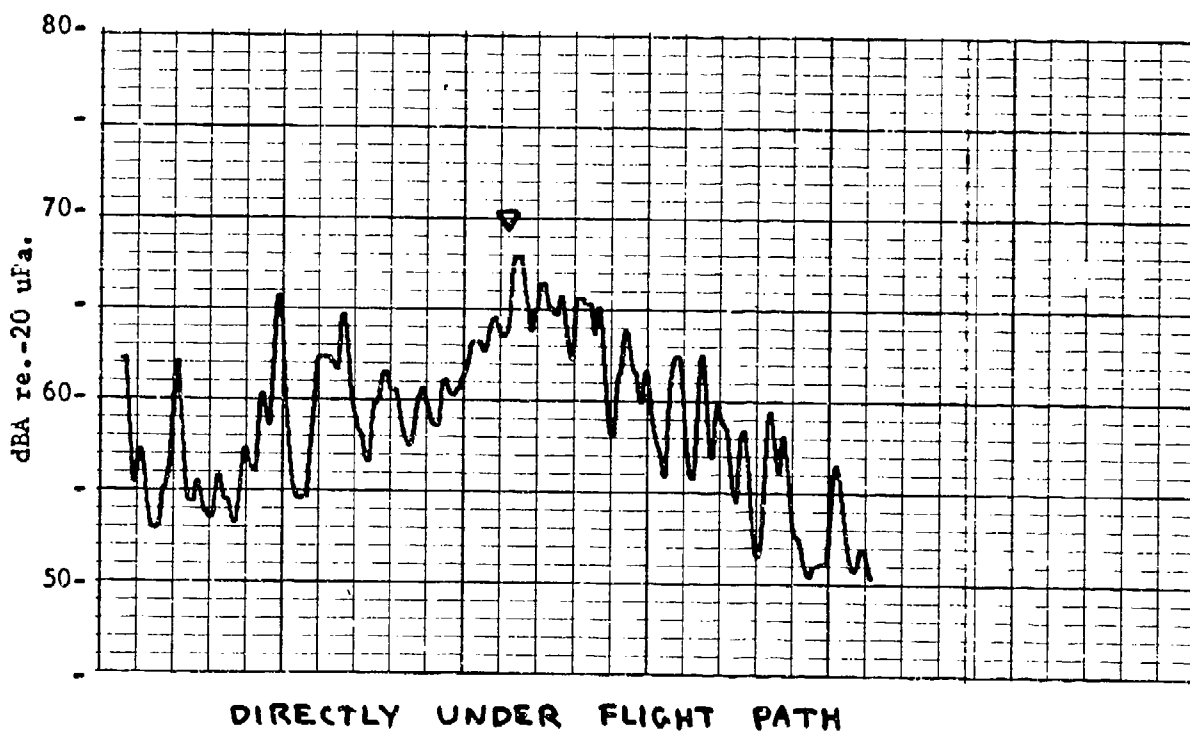
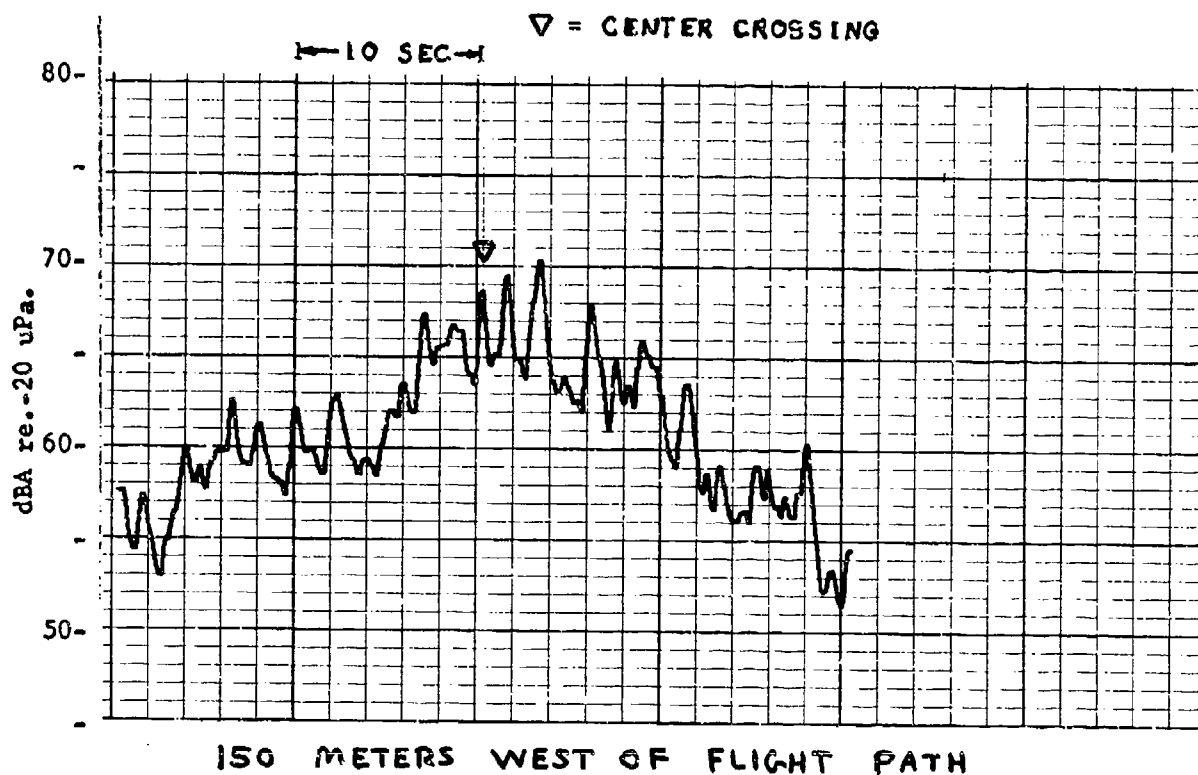
TABLE A-IX



NOISE LEVEL TIME HISTORIES
 HUGHES 300-C HELICOPTER
 LEVEL FLYOVER - 82 MPH

RUN 35

TABLE A-IX



NOISE LEVEL TIME HISTORIES
HUGHES 300C HELICOPTER
LEVEL FLYOVER - 90 MPH

RUN 40

DATA TABLE B

HUGHES 500C

TEST DATE: 10-28-76

TEST SITE: NASA LANGLEY

SECTION - B	CONTENT	PAGE #
I	RUN LIST	109
II	GROUND AND FLIGHT LOG DATA	112
III	METEOROLOGICAL DATA	114
IV	LEVEL FLYOVER AND APPROACH NOISE DATA	115
V	TIME HISTORIES	117
VI	1/3-OCTAVE BAND SPECTRA--FLYOVER AND APPROACH	149
VII	1/3-OCTAVE BAND SPECTRA--5 FOOT HOVER	181
VIII	MAXIMUM dBA NOISE LEVEL (ALL RUNS)	197
IX	SELECTED dBA TIME HISTORIES--GRAPHIC PLOTS	200

THE NOISE LEVELS PRESENTED IN SECTIONS IV, V AND VI
HAVE BEEN TABULATED FOR THE SELECTED RUNS AND MICROPHONE
LOCATIONS INDICATED ON THE FOLLOWING PAGE.

TABLE B-I

LIST OF RUNS SELECTED FOR ANALYSIS

RUN#	TEST CONDITION	MICROPHONE LOCATION			
		WEST		EAST	
		150 m SIDELINE	CENTER LINE	CENTER LINE	150m SIDELINE
56	3° Approach 69 mph		X		
58	Level Flyover 69 mph		X		
59	↓		X		
60	↓ 110 mph		X		
61	↓		X		
65	6° Approach 69 mph	X	X		X
83	9° Approach 69 mph		X		
104	Level Flyover 130 mph	X	X		X
105	↓	X	X		X
106	↓ 144 mph	X	X	X	X
107	↓	X	X	X	X
108	↓ 150 mph	X	X		X
109	↓	X	X		X
110	↓ 130 mph	X	X		X
	Microphone Locations	Over Concrete	Over Concrete	Over Grass	Over Concrete
		110			

GENERAL COMMENTS

- o There were no problems encountered while testing the Hughes 500C.
- o The weather conditions during the test were moderately windy with gusts in the 5-12 mph range.

TABLE B-II

Ground and Flight Log Data

Test Date: Oct. 28, 1976

Registration Number:

Helicopter Model: Hughes 500C

Run	Time	Target Conditions		Actual Conditions				Ground Weather			Comments					
		Type	Velocity	Altitude Feet	dB A	Heading	Air Speed	Rate of Descent	Mp or Tangue	Altitude over Peak		RPM	OAT	Temp.	RH	Wind Speed
1-34	Sikorsky S-61	Tested														
35-55	Sikorsky S-64	"Skycrane" Tested														
56	1:45	3° App	69 mph	400 ft	79.0	↓	320 1/4 in	↓	22 mi	400 ft	104%	40°F	47°F	43%	7-12 kts Avg. Gusts to 20 kts	N
57	1:53		↓	↓	83.5											
58	1:57	level Flyover	69 mph	500 ft	77.0	↓	0	↓	30 psi	500 ft	104%	41°F	41°F			
59	2:00	↓	↓	↓	76.5											
60	2:03	level Flyover	110 mph	500 ft	76.5	↓	0	↓	38 mi	500 ft	104%	41°F	41°F			
61	2:06	↓	↓	↓	77.0											
62	2:11	6° App.	60 mph	400 ft	84.0					400	104%	41°F	41°F			
63	2:14		↓	↓	79.5				22 mi	500						
64	2:17		↓	↓	—				—	410						
65	2:22		↓	↓	80.0				18 mi	400						
66-81	Sikorsky S-64	"Skycrane" Tested														
82	3:23	9° App.	60 mph	400 ft	79.5	↓	950 9/16 in	↓	9 mi	410	104%	40°F	48°F	38%	10-12 kts Avg. Gusts to 18 kts	N
83	3:36		↓	↓	79.0				10	410						
84	3:38		↓	↓	82.5				12	400						
85	3:37		↓	↓	—				12	400						
86-93	Sikorsky S-64	"Skycrane" Tested														
94	4:30	Hover	0	5 ft	—		0	↓	43 mi	5 ft	104%	42°F				
95	4:31		↓	↓	—				43							
96	4:32		↓	↓	—				44							
97	4:33		↓	↓	—				44							
98	4:34		↓	↓	—				43							

TABLE B-II Ground and Flight Log Data

Test Date: Oct. 28, 1976

Number:

Registration

Helicopter Model: Hughes 500 C

Time	Target Conditions			dB A	Actual Conditions			Ground Weather				Comments				
	Type	Velocity	Altitude ft.		Heading	Air Speed	Rate of Descent	Mp or Torque	Altitude ft.	RPM	OAT		Temp.	RH	Wind Speed	Wind Direction
79	Hover	0	5 ft.	—	180° S	0	0	42 psi	5 ft.	104%	42°F	48°F	38%	10-12 kt. Avg. Gusts to 18 kt.		
80				—	225°			43								
81				—	270° W			43								
82				—	315°			42								
83				—	0° N			42								
84	Level Flyover	130 mph	500 ft.	—	S	130 mph	0	42 psi	800 ft.	104%	42°F	49°F	36%	6-8 kt.	N	Too High 800 ft.
85				—	S			46	700 ft.							Too High 700 ft.
86	Level Flyover	144 mph	500 ft.	—	S	144 mph	0	50 psi	500 ft.							
87				—	S			50								
88	Level Flyover	150 mph	500 ft.	—	S	150 mph	0	56 psi								
89				—	S			56								
90	Level Flyover	130 mph	500 ft.	—	S	130 mph		46 psi	500 ft.							

TABLE B-III

Meteorological Data
Langley Air Force Base

October 28, 1976

TIME (hours)	TEMP. (of)	BAR. PRESS. (mmhs)	REL. HUM. (%)	WIND SPEED (mph)	WIND DIRECTION (degrees)	REMARKS
0800	53	778	62	5-19	0	Sky - Partly Cloudy
0815	53		66	10-19	20	
0830	53		67	16-23	25	
0845	53		68	14-22	20	
0900	54		69	9-19	30	
0915	54		70	11-19	30	
0930	54		69	13-22	25	
0945	54		69	8-20	20	
1000	54		69	7-16	30	
1015	54		68	12-18	30	
1030	55		67	18-23	40	
1130	54		65	14-18	10	
1145	56		64	10-16	30	
1200	56		64	8-12	35	Sky - Clear
1215	55		63	8-14	20	
1230	56		60	8-12	20	
1245	56		58	13-18	25	
1300	57	774	56	8-15	40	
1315	58		53	8-16	40	
1330	57		52	5-12	50	
1345	57		50	8-15	40	Sky - Clear
1400	57		48	8-12	45	
1415	57		48	5-12	15	
1430	57		47	5-12	50	
1445	58		48	5-9	30	
1500	57	772	47	5-8	20	
1515	57		47	6-12	25	
1530	57		47	5-15	60	
1545	58		48	8-11	30	
1600	58		47	8-10	50	
1615	57		46	9-11	60	
1630	56		46	5-8	40	
1645	57		46	2-9	40	
1700	57		47	1-6	25	
1715	56		48	2-7	40	

TABLE B-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

HUGHES 500 C

OCTOBER 28 1976

MICROPHONE OFFSET 150 METERS WEST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
65	86.7	74.8	78.4	79.3	85.5	85.6	71.3	23.5	30.5	2.3
104	85.5	75.0	77.7	79.0	84.8	87.5	71.7	16.0	16.0	2.9
105	85.0	73.4	76.3	78.9	83.6	86.2	70.3	18.5	22.0	2.6
106	87.3	79.5	82.8	83.9	89.6	90.9	76.3	11.0	11.0	1.3
107	87.4	77.7	81.1	82.6	88.4	90.0	74.9	13.5	13.5	1.6
108	89.3	80.8	83.3	85.0	90.2	91.4	77.2	11.0	19.0	1.9
109	88.1	79.0	82.3	83.6	88.9	90.2	75.1	16.0	16.0	1.3
110	87.3	77.0	80.0	82.3	87.0	88.2	73.1	18.0	21.0	1.5

MICROPHONE OFFSET 150 METERS EAST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
65	---	72.2	75.8	78.5	83.4	83.4	68.4	32.5	---	1.8
104	84.9	73.5	77.3	78.1	84.4	85.7	70.6	17.5	21.0	1.8
105	85.5	75.6	78.4	79.6	85.4	86.8	71.8	17.0	18.5	1.4
106	87.4	79.0	82.6	83.8	89.9	91.0	76.3	12.0	10.5	1.2
107	86.9	77.8	81.1	81.9	88.4	90.8	74.1	14.0	10.5	2.4
108	89.1	82.3	84.9	85.5	91.6	91.6	78.5	9.5	11.5	.0
109	89.0	81.5	84.5	84.8	91.4	93.0	77.6	11.0	11.5	2.3
110	87.7	77.0	80.3	81.4	87.6	89.7	74.4	16.0	16.0	2.0

TABLE B-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

HUGHES 500 C

OCTOBER 28 1976

CENTERLINE MICROPHONE - HARD SITE
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
56	88.4	77.8	82.4	86.2	90.1	90.1	74.4	14.5	15.5	.0
58	87.3	76.0	80.7	82.9	87.8	87.8	72.0	19.0	20.0	.0
59	86.8	75.9	80.5	83.4	87.7	87.7	71.9	17.0	19.0	.0
60	86.1	75.9	80.4	83.7	87.5	87.5	72.1	14.5	17.5	.0
61	35.7	76.9	81.4	83.8	88.3	88.3	73.0	11.0	12.5	.0
65	89.1	78.3	82.5	84.5	89.5	89.8	74.9	18.0	19.0	1.1
83	88.4	78.3	82.8	85.2	90.1	90.1	75.4	12.5	17.5	.0
104	85.8	73.1	77.3	79.9	85.0	85.4	70.5	20.0	22.5	2.5
105	85.8	73.2	77.4	79.8	85.0	85.6	70.3	19.5	26.0	1.4
106	87.7	79.1	83.5	85.7	91.2	91.2	75.4	12.5	10.0	.0
107	87.8	77.7	81.9	84.5	89.4	89.4	74.4	14.0	16.5	.0
108	89.1	80.7	85.3	87.2	93.0	93.0	76.7	12.5	9.5	.0
109	88.9	79.5	83.5	85.3	90.8	90.8	75.4	16.5	18.0	.0
110	88.4	78.5	82.8	85.4	90.3	90.3	74.1	18.0	18.0	.0

CENTERLINE MICROPHONE - SOFT SITE
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(PP)	TC
106	86.9	78.8	83.2	84.4	90.6	90.6	.0	15.5	11.5	.0
107	87.0	77.0	81.4	83.3	88.5	88.5	72.4	21.0	18.0	.0

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 65, 6 DEGREE APPROACH, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	60.3	66.6	71.2	74.1	75.4	13.8	6.3
3	59.2	66.3	70.9	73.5	73.5	14.3	7.1
5	59.0	66.3	70.7	73.8	73.8	14.8	7.3
7	66.3	70.0	72.6	77.9	77.9	11.6	3.7
9	67.8	71.4	73.7	79.7	79.7	11.9	3.6
11	66.8	70.7	73.8	79.1	79.1	12.3	3.9
13	66.3	70.4	73.1	78.5	79.8	12.2	4.1
15	66.4	70.5	73.1	78.0	80.1	11.6	4.1
17	68.7	71.6	73.5	79.4	81.6	10.7	2.9
19	71.5	74.0	74.9	81.3	82.8	9.8	2.5
21	73.4	75.8	76.4	83.3	85.6	9.9	2.4
23	72.3	74.5	75.5	82.4	84.4	10.1	2.2
25	72.6	75.2	76.4	82.6	82.6	10.0	2.6
27	71.3	74.2	76.4	81.4	83.0	10.1	2.9
29	71.1	73.8	77.1	81.1	81.1	10.0	2.7
31	73.4	76.2	78.8	83.5	83.5	10.1	2.8
OH → 33	73.0	76.2	79.0	83.3	83.3	10.3	3.2
35	72.5	76.1	79.0	83.0	83.0	10.5	3.6
37	71.3	74.9	78.9	82.3	82.3	11.0	3.6
39	73.7	77.3	79.0	84.4	84.4	10.7	3.6
41	74.4	78.0	78.8	85.0	85.0	10.6	3.6
43	72.3	76.1	77.0	82.8	83.9	10.5	3.8
45	72.1	75.7	76.9	82.8	84.9	10.7	3.6
47	70.7	74.0	75.9	80.9	80.9	10.2	3.3
49	68.4	72.3	73.9	79.9	81.6	11.5	3.9
51	67.0	70.8	73.4	78.9	79.9	11.9	3.8
53	64.0	68.9	71.8	76.6	78.3	12.6	4.9
55	61.4	67.3	70.7	75.1	75.1	13.7	5.9
57	59.2	66.1	71.4	73.5	73.5	14.3	6.9
59	55.3	65.2	70.5	72.5	72.5	17.2	9.9

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 104, 130 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	58.3	66.5	70.4	73.7	73.7	15.4	8.2
2	58.4	66.7	71.0	74.0	74.0	15.6	8.3
3	59.4	67.2	71.9	75.0	75.0	15.6	7.8
4	65.9	69.9	73.0	77.7	78.8	11.8	4.0
5	67.4	71.2	74.2	78.9	80.2	11.5	3.8
6	69.4	72.9	75.1	80.3	80.3	10.9	3.5
7	70.4	73.7	75.8	81.4	81.4	11.0	3.3
8	73.6	76.3	77.9	84.0	85.7	10.4	2.7
9	74.8	77.4	78.8	84.8	87.5	10.0	2.6
10	75.0	77.7	79.0	84.6	87.5	9.6	2.7
11	73.8	76.7	78.1	83.8	86.2	10.0	2.9
12	72.7	75.9	77.6	83.4	84.8	10.7	3.2
13	73.0	75.9	77.8	83.7	84.8	10.7	2.9
14	73.2	76.4	78.0	83.8	85.7	10.6	3.2
15	73.5	76.6	78.4	83.8	85.5	10.3	3.1
16	73.5	76.8	78.4	84.0	84.0	10.5	3.3
17	73.7	76.5	78.4	84.3	84.3	10.6	2.8
18	73.8	76.2	78.0	84.0	84.0	10.8	3.0
19	72.5	75.7	77.6	83.5	83.5	11.0	3.2
20	72.4	75.8	77.2	83.1	83.1	10.7	3.4
21	72.2	75.4	76.9	83.1	83.1	10.9	3.2
22	72.5	75.4	77.4	83.1	83.1	10.6	2.9
23	72.1	75.6	78.2	82.8	82.8	10.7	3.5
OH → 24	71.8	75.7	78.7	82.4	82.4	10.6	3.9
25	70.9	75.4	78.7	82.1	82.1	11.2	4.5
26	70.7	75.1	78.6	81.9	81.9	11.2	4.4
27	71.0	75.3	78.4	82.4	82.4	11.4	4.3
28	70.9	75.1	77.9	82.4	82.4	11.5	4.2
29	70.2	74.6	77.2	82.0	82.0	11.8	4.4
30	69.3	73.7	76.1	81.0	81.0	11.7	4.4
31	68.2	72.9	75.0	80.1	80.1	11.9	4.7
32	67.2	72.1	73.7	79.0	79.0	11.8	4.9
33	66.2	71.2	72.3	78.6	78.6	12.4	5.0
34	65.9	70.4	71.2	78.2	78.2	12.3	4.5
35	65.0	69.5	70.1	77.3	77.3	12.3	4.5
36	63.4	68.4	69.0	76.0	76.0	12.6	5.0
37	61.3	67.6	68.1	74.8	76.1	13.5	6.3
38	60.4	67.1	68.0	74.7	76.5	14.3	6.7

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 105, 130 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	58.8	66.2	69.6	73.6	73.6	14.8	7.4
2	60.2	66.7	70.1	74.6	74.6	14.4	6.5
3	61.4	67.4	70.9	75.5	75.5	14.1	6.0
4	62.6	68.2	71.9	76.5	78.0	13.9	5.6
5	67.2	70.4	73.2	78.6	78.6	11.4	3.2
6	70.1	72.3	74.4	80.2	80.2	10.1	2.2
7	71.0	72.8	74.6	80.5	80.5	9.5	1.8
8	70.1	72.2	74.3	79.8	81.5	9.7	2.1
9	68.7	71.4	73.5	79.0	81.2	10.3	2.7
10	68.7	71.6	73.5	79.1	81.6	10.4	2.9
11	69.8	72.3	74.3	79.9	82.1	10.1	2.5
12	71.2	73.3	75.5	81.4	82.5	10.2	2.1
13	72.2	74.8	76.7	82.6	83.9	10.4	2.6
14	73.4	75.9	77.6	83.4	85.8	10.0	2.5
15	73.4	76.3	78.0	83.6	86.2	10.2	2.9
16	72.5	75.5	77.8	82.9	85.2	10.4	3.0
17	71.0	74.5	77.4	82.2	83.3	11.2	3.5
18	70.7	74.5	77.6	82.5	82.5	11.8	3.8
19	70.8	74.6	77.4	82.5	82.5	11.7	3.8
20	70.9	74.7	77.2	82.5	82.5	11.6	3.8
21	70.7	74.6	76.8	82.2	82.2	11.5	3.9
22	70.9	74.7	76.9	82.0	82.0	11.1	3.8
23	70.9	75.2	77.2	82.5	82.5	11.6	4.3
24	70.7	75.1	77.5	82.4	82.4	11.7	4.4
25	71.6	75.8	78.2	82.9	82.9	11.3	4.2
OH → 26	71.9	76.1	78.7	82.9	82.9	11.0	4.2
27	71.9	76.2	78.9	82.8	82.8	10.9	4.3
28	71.5	75.8	78.8	82.4	82.4	10.9	4.3
29	71.3	75.6	78.5	82.1	82.1	10.8	4.3
30	71.0	75.2	77.9	82.3	82.3	11.3	4.2
31	70.0	74.4	77.2	82.0	82.0	12.0	4.4
32	69.9	74.3	76.7	82.1	82.1	12.2	4.4
33	69.4	74.0	76.0	81.5	81.5	12.1	4.6
34	69.0	73.4	75.2	80.8	80.8	11.8	4.4
35	67.8	72.3	74.3	80.3	80.3	12.5	4.5
36	67.3	71.8	73.6	80.1	80.1	12.8	4.5
37	66.4	71.0	72.4	79.2	79.2	12.8	4.6
38	65.5	69.9	71.3	77.8	77.8	12.3	4.4
39	64.3	69.0	70.6	76.6	78.1	12.3	4.7
40	63.6	68.9	70.7	76.5	78.2	12.9	5.3
41	62.5	68.3	70.4	76.2	77.9	13.7	5.8
42	62.4	68.3	70.4	76.1	76.1	13.7	5.7
43	62.3	68.0	70.0	75.9	75.9	13.6	5.7

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 106, 144 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	67.5	71.3	74.3	77.9	79.1	10.4	3.8
2	66.8	70.5	74.2	77.0	78.5	10.2	3.7
3	66.1	70.1	74.6	76.4	77.9	10.3	4.0
4	71.1	74.0	77.1	80.4	82.1	9.3	2.9
5	73.4	76.2	78.6	82.5	83.7	9.1	2.8
6	73.7	76.6	79.2	82.8	84.0	9.1	2.9
7	74.3	77.1	79.5	84.0	85.4	9.7	2.8
8	75.8	78.6	80.4	85.6	85.6	9.8	2.8
9	79.0	81.7	82.6	88.1	88.1	9.1	2.7
10	79.3	82.2	83.1	88.3	88.3	9.0	2.9
11	79.5	82.8	83.6	89.1	89.1	9.6	3.3
12	78.5	82.4	83.5	89.2	89.2	10.7	3.9
13	78.4	82.4	83.8	89.6	90.9	11.2	4.0
14	77.1	81.3	83.0	88.7	88.7	11.6	4.2
15	76.7	80.7	82.4	87.6	87.6	10.9	4.0
16	76.6	80.6	82.2	86.7	86.7	10.1	4.0
OH → 17	77.3	81.1	83.4	87.2	87.2	9.9	3.8
18	77.1	81.0	83.9	87.5	87.5	10.4	3.9
19	76.9	80.7	83.8	87.3	87.3	10.4	3.8
20	76.0	79.7	82.9	86.4	87.6	10.4	3.7
21	75.0	78.7	81.6	85.3	86.5	10.3	3.7
22	73.5	77.2	80.1	83.8	83.8	10.3	3.7
23	72.1	75.8	78.3	82.3	83.5	10.2	3.7
24	70.7	74.4	76.8	81.2	82.3	10.5	3.7
25	69.0	72.9	75.1	79.4	79.4	10.4	3.9
26	66.8	71.0	73.2	77.5	78.9	10.7	4.2
27	64.5	69.1	71.5	75.9	76.9	11.4	4.6
28	62.7	67.5	70.5	74.5	74.5	11.8	4.8

TABLE 8-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 107, 144 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.9	67.9	71.2	75.7	77.1	13.8	6.0
2	61.5	67.9	72.0	75.9	77.4	14.4	6.4
3	65.0	69.7	73.3	77.1	77.1	12.1	4.7
4	68.5	71.9	74.4	79.0	80.7	10.5	3.4
5	69.1	72.4	74.9	79.4	80.8	10.3	3.3
6	69.7	72.7	75.4	79.9	80.9	10.2	3.0
7	69.9	73.2	76.0	80.3	80.3	10.4	3.3
8	74.4	77.1	78.7	84.2	86.5	9.8	2.7
9	76.4	79.0	80.2	86.3	88.2	9.9	2.6
10	77.5	80.1	81.1	87.5	88.8	10.0	2.6
11	77.5	80.3	81.4	87.6	87.6	10.1	2.8
12	77.2	80.4	81.6	87.3	87.3	10.1	3.2
13	77.7	81.1	82.4	87.8	87.8	10.1	3.4
14	77.4	81.0	82.6	88.2	89.4	10.8	3.6
15	77.0	80.9	82.4	88.4	90.0	11.4	3.9
16	75.6	79.9	81.7	87.8	87.8	12.2	4.3
17	75.6	79.9	81.8	87.5	87.5	11.9	4.3
18	75.8	79.6	81.8	86.8	86.8	11.0	3.8
19	75.9	79.5	81.6	86.3	86.3	10.4	3.6
OH → 20	75.4	78.8	81.4	85.4	85.4	10.0	3.4
21	75.4	78.8	81.9	85.6	85.6	10.2	3.4
22	75.2	78.9	82.4	85.7	85.7	10.5	3.7
23	75.1	79.0	82.3	85.7	85.7	10.6	3.9
24	74.4	78.3	81.5	85.4	85.4	11.0	3.9
25	73.9	77.5	80.7	84.9	84.9	11.0	3.6
26	72.9	76.7	79.7	84.2	84.2	11.3	3.8
27	72.0	75.7	78.5	83.0	83.0	11.0	3.7
28	70.6	74.5	76.9	81.4	81.4	10.8	3.9
29	69.1	73.1	75.1	80.2	81.4	11.1	4.0
30	67.4	71.8	73.6	79.0	80.4	11.6	4.4
31	66.3	70.6	71.9	77.9	77.9	11.6	4.3
32	64.4	59.1	70.4	76.7	76.7	12.3	4.7
33	62.1	67.9	68.7	75.4	76.9	13.3	5.8

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 108, 150 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	63.5	70.0	73.8	77.3	78.4	13.8	6.5
2	65.8	71.6	74.6	78.5	80.1	12.7	5.8
3	68.9	73.4	75.8	80.0	81.3	11.1	4.5
4	70.6	74.3	76.6	81.0	82.4	10.4	3.7
5	71.9	74.9	77.6	81.7	83.1	9.8	3.0
6	73.8	76.1	79.0	83.2	84.5	9.4	2.3
7	75.2	77.7	80.1	84.7	86.2	9.5	2.5
8	75.9	78.9	81.0	85.7	86.9	9.8	3.0
9	76.3	79.5	81.9	86.2	86.2	9.9	3.2
10	77.6	80.5	82.9	87.4	88.9	9.8	2.9
11	79.8	82.4	84.3	89.4	90.8	9.6	2.6
12	80.8	83.3	84.7	90.2	90.2	9.4	2.5
13	80.4	83.2	84.5	90.1	90.1	9.7	2.8
14	78.6	82.0	83.5	89.0	89.0	10.4	3.4
15	77.5	81.6	83.3	89.2	89.2	11.7	4.1
16	77.3	81.7	83.7	89.5	89.5	12.2	4.4
17	78.2	82.4	84.4	89.8	89.8	11.6	4.2
18	78.5	82.5	84.8	89.5	91.4	11.0	4.0
OH → 19	78.4	82.3	85.0	89.2	91.0	10.8	3.9
20	77.9	81.6	84.8	88.7	90.1	10.8	3.7
21	76.8	80.6	84.2	87.6	88.9	10.8	3.8
22	76.0	79.5	83.0	86.5	88.1	10.5	3.5
23	74.5	78.2	81.6	85.3	87.0	10.8	3.7
24	73.0	76.9	79.8	84.0	84.0	11.0	3.9
25	71.5	75.4	78.4	82.7	82.7	11.2	3.9
26	69.3	73.5	76.7	81.3	82.8	12.0	4.2
27	67.2	72.0	75.3	80.0	81.3	12.8	4.8
28	65.0	70.6	73.6	78.2	78.2	13.2	5.6

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 109, 150 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.9	68.8	69.7	76.6	76.6	13.7	5.9
2	64.4	70.2	71.4	77.9	78.9	13.5	5.8
3	66.2	71.2	72.6	78.8	79.9	12.6	5.0
4	69.6	73.1	74.4	80.2	81.4	10.6	3.5
5	71.8	74.8	75.7	81.3	82.6	9.5	3.0
6	72.5	75.4	76.2	81.8	83.1	9.3	2.9
7	71.9	75.1	75.9	81.4	82.7	9.5	3.2
8	73.1	76.0	77.0	82.7	84.0	9.6	2.9
9	73.9	76.6	77.6	83.4	84.8	9.5	2.7
10	74.0	76.4	77.9	83.4	84.9	9.4	2.4
11	71.8	74.4	76.8	81.5	83.0	9.7	2.6
12	69.6	73.1	76.7	80.2	80.2	10.6	3.5
13	69.6	73.7	77.0	80.3	80.3	10.7	4.1
14	72.5	76.0	78.1	82.4	83.6	9.9	3.5
15	75.9	79.1	80.0	85.5	87.2	9.6	3.2
16	76.5	79.8	80.9	86.3	88.0	9.8	3.3
17	77.9	80.9	82.2	87.7	87.7	9.8	3.0
18	78.2	81.5	82.9	88.2	89.5	10.0	3.3
19	79.0	82.3	83.6	88.9	90.2	9.9	3.3
20	78.6	82.1	83.6	88.8	88.8	10.2	3.5
21	77.6	81.2	83.0	88.5	88.5	10.9	3.6
22	76.3	80.1	82.3	88.2	88.2	11.9	3.8
23	75.4	79.3	81.8	87.5	87.5	12.1	3.9
24	75.6	79.5	81.9	87.0	88.3	11.4	3.9
25	76.4	80.0	82.5	86.5	86.5	10.1	3.6
OH → 26	76.8	80.6	83.2	87.0	87.0	10.2	3.8
27	76.8	80.6	83.6	87.1	87.1	10.3	3.8
28	76.2	80.0	83.3	86.7	86.7	10.5	3.8
29	75.4	79.0	82.5	86.1	86.1	10.7	3.6
30	74.5	78.1	81.3	85.1	86.1	10.6	3.6
31	73.4	77.2	80.0	84.0	84.0	10.6	3.8
32	71.9	76.0	78.1	82.3	82.3	10.4	4.1
33	71.3	75.2	76.9	81.6	82.8	10.3	3.9
34	70.2	74.1	75.5	80.7	80.7	10.5	3.9
35	68.7	72.4	74.2	79.6	79.6	10.9	3.7
36	65.7	70.4	72.4	77.9	79.3	12.2	4.7
37	64.2	69.4	71.1	76.8	77.9	12.6	5.2
38	63.7	69.0	70.5	76.5	76.5	12.8	5.3

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 110, 130 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.0	69.8	71.3	78.1	79.5	13.1	4.8
2	65.9	70.3	71.8	78.6	79.9	12.7	4.4
3	65.7	70.0	71.9	78.5	78.5	12.8	4.3
4	67.1	70.0	72.0	78.2	79.4	11.1	2.9
5	68.6	71.0	72.9	78.7	80.1	10.1	2.4
6	69.8	72.1	73.7	79.3	80.6	9.5	2.3
7	68.7	71.8	73.7	79.1	80.4	10.4	3.1
8	67.2	71.4	73.6	78.8	80.2	11.6	4.2
9	65.0	70.4	73.2	78.1	79.7	13.1	5.4
10	64.3	70.0	73.0	77.6	79.3	13.3	5.7
11	63.4	69.5	72.9	77.2	78.6	13.8	6.1
12	63.7	69.8	73.2	77.2	78.3	13.5	6.1
13	65.5	70.4	73.6	77.4	78.6	11.9	4.9
14	66.9	70.9	74.1	78.0	79.1	11.1	4.0
15	68.1	71.6	74.9	78.9	80.0	10.8	3.5
16	70.5	73.3	76.0	80.4	80.4	9.9	2.8
17	73.6	76.2	77.9	83.2	84.4	9.6	2.6
18	75.4	77.9	79.4	85.2	87.0	9.8	2.5
19	76.7	79.4	80.7	86.7	88.2	10.0	2.7
20	77.0	79.6	80.9	86.9	86.9	9.9	2.6
21	77.0	79.7	81.2	87.0	87.0	10.0	2.7
22	76.3	79.4	81.0	86.8	86.8	10.5	3.1
23	75.5	78.9	80.8	86.4	86.4	10.9	3.4
24	74.9	78.8	80.5	86.3	87.8	11.4	3.9
25	74.2	78.3	80.2	85.8	87.3	11.6	4.1
26	74.1	78.2	80.2	85.6	86.8	11.5	4.1
27	74.2	78.4	80.7	85.4	87.0	11.2	4.2
28	75.2	79.3	81.4	85.8	87.3	10.6	4.1
29	75.9	80.0	82.0	86.3	86.3	10.4	4.1
OH → 30	75.9	79.9	82.3	86.1	86.1	10.2	4.0
31	75.5	79.5	82.2	86.2	86.2	10.7	4.0
32	74.6	78.7	81.6	85.6	85.6	11.0	4.1
33	73.9	78.1	80.8	85.0	85.0	11.1	4.2
34	73.1	77.3	79.8	83.8	83.8	10.7	4.2
35	72.3	76.4	78.7	82.8	82.8	10.5	4.1
36	71.1	75.2	77.3	82.0	83.3	10.9	4.1
37	69.7	74.0	75.6	80.9	82.3	11.2	4.3
38	67.9	72.4	73.7	79.6	80.6	11.7	4.5
39	66.8	71.4	72.4	78.7	78.7	11.9	4.6
40	65.7	70.5	71.4	77.9	79.6	12.2	4.8
41	65.1	69.9	70.6	77.4	78.9	12.3	4.8
42	63.9	68.8	69.7	76.5	76.5	12.6	4.9

TABLE B-V
NOISE LEVEL TIME HISTORY DATA
HUGHES 500 C

OCTOBER 28 1976

EVENT 65, 6 DEGREE APPROACH, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	57.0	64.8	71.5	72.9	72.9	15.9	7.8
3	57.7	65.0	70.6	73.3	74.3	15.6	7.3
5	56.7	65.0	72.5	73.0	73.0	16.3	8.3
7	60.5	66.5	73.6	74.7	75.9	14.2	6.0
9	66.1	69.9	74.1	78.2	80.4	12.1	3.8
11	65.0	69.3	74.4	77.8	79.7	12.8	4.3
13	60.0	67.1	77.3	74.8	76.2	14.8	7.1
15	59.0	66.7	77.6	74.2	76.2	15.2	7.7
17	59.9	66.9	76.7	74.5	76.2	14.6	7.0
19	62.5	68.3	77.4	76.1	77.6	13.6	5.8
21	69.0	71.3	77.0	80.0	81.0	11.0	2.3
23	68.1	71.3	76.7	79.8	79.8	11.7	3.2
25	67.2	71.1	75.8	79.3	80.4	12.1	3.9
27	68.1	71.5	76.2	79.7	81.5	11.6	3.4
29	68.3	71.5	76.0	79.3	80.8	11.0	3.2
31	66.8	70.9	75.1	78.3	79.9	11.5	4.1
33	66.3	70.7	74.7	78.3	79.4	12.0	4.4
35	67.9	72.0	75.7	79.4	81.3	11.5	4.1
37	69.3	73.4	77.2	80.9	83.2	11.6	4.1
39	71.1	74.5	78.4	82.3	82.3	11.2	3.4
41	70.6	74.2	77.8	81.6	81.6	11.0	3.6
43	68.8	72.6	75.4	80.4	80.4	11.6	3.8
45	70.7	74.3	75.4	81.5	81.5	10.8	3.6
47	71.6	75.3	76.5	82.3	82.3	10.7	3.7
49	71.3	75.4	77.1	82.5	82.5	11.2	4.1
51	71.7	75.6	77.1	82.4	82.4	10.7	3.9
53	71.9	75.7	77.4	83.3	83.3	11.4	3.8
55	72.0	75.7	77.6	83.1	83.1	11.1	3.7
57	70.3	74.3	77.1	81.2	81.2	10.9	4.0
59	67.9	72.1	75.9	79.2	80.7	11.3	4.2
61	66.9	71.0	75.5	78.6	79.9	11.7	4.1
63	67.3	71.2	75.1	78.8	80.5	11.5	3.9
65	64.6	69.2	73.9	77.1	78.1	12.5	4.6
67	65.0	69.3	73.5	77.0	77.0	12.0	4.3
69	63.7	68.3	72.5	76.0	76.0	12.3	4.6
71	62.5	68.1	72.0	75.4	76.6	12.9	5.6
73	60.7	67.3	72.2	74.6	75.7	13.9	6.6

O.H. → 48

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 104, 130 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	59.8	67.4	72.6	75.5	76.6	15.7	7.6
2	60.5	67.6	73.1	75.8	75.8	15.3	7.1
3	61.5	68.0	73.2	75.9	75.9	14.4	6.5
4	65.0	69.9	73.8	77.4	79.1	12.4	4.9
5	68.4	71.9	74.9	79.1	80.9	10.7	3.5
6	68.6	72.1	75.4	79.2	81.0	10.6	3.5
7	68.3	71.9	75.5	79.1	79.1	10.8	3.6
8	67.1	71.1	75.1	78.5	79.9	11.4	4.0
9	68.6	71.8	75.2	79.2	81.5	10.6	3.2
10	70.3	73.6	76.0	80.8	83.8	10.5	3.3
11	70.9	74.2	76.4	81.3	84.0	10.4	3.3
12	71.2	74.4	76.6	82.0	84.0	10.8	3.2
13	71.6	74.7	76.5	82.3	82.3	10.7	3.1
14	72.4	75.9	77.0	83.3	85.0	10.9	3.5
15	73.3	77.1	77.8	83.9	85.7	10.6	3.8
16	73.2	77.3	78.0	83.7	84.9	10.5	4.1
17	73.5	77.2	78.1	84.1	84.1	10.6	3.7
18	73.2	76.8	77.8	84.2	84.2	11.0	3.6
19	73.1	76.7	77.9	84.4	84.4	11.3	3.6
20	72.0	76.1	77.4	83.9	83.9	11.9	4.1
21	71.4	75.6	76.8	83.4	83.4	12.0	4.2
22	71.0	74.7	76.0	82.2	82.2	11.2	3.7
23	71.1	74.3	75.9	81.7	81.7	10.6	3.2
OH → 24	71.5	75.1	76.5	82.4	82.4	10.9	3.6
25	72.6	76.3	77.2	83.0	83.0	10.4	3.7
26	72.8	76.6	77.2	83.0	83.0	10.2	3.8
27	72.9	76.6	77.1	82.9	82.9	10.0	3.7
28	72.1	75.8	76.3	82.4	82.4	10.3	3.7
29	71.2	74.9	75.5	81.9	81.9	10.7	3.7
30	69.4	73.2	74.0	80.7	80.7	11.3	3.8
31	67.9	71.7	73.0	79.6	79.6	11.7	3.8
32	67.2	70.9	72.5	78.9	78.9	11.7	3.7
33	66.1	69.8	71.6	77.6	77.6	11.5	3.7
34	65.7	69.5	71.4	77.8	77.8	12.1	3.8
35	65.3	69.4	71.2	77.7	77.7	12.4	4.1
36	65.1	69.1	70.9	77.6	77.6	12.5	4.0
37	64.4	68.6	70.3	76.9	76.9	12.5	4.2
38	63.0	67.8	69.4	75.6	75.6	12.6	4.8
39	61.5	67.0	68.5	74.7	76.1	13.2	5.5
40	59.7	65.9	67.3	73.9	75.6	14.2	6.2
41	58.9	65.5	67.0	73.6	73.6	14.7	6.6

TABLE B-V
NOISE LEVEL TIME HISTORY DATA
HUGHES 500 C

OCTOBER 28 1976

EVENT 105, 130 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
 (DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	58.5	66.0	71.5	74.0	74.0	15.5	7.5
2	60.4	67.2	72.2	75.0	75.0	14.6	6.8
3	63.5	69.1	73.2	76.6	76.6	13.1	5.6
4	65.2	70.2	73.8	77.6	77.6	12.4	5.0
5	66.5	70.9	74.3	78.3	79.6	11.8	4.4
6	68.6	72.1	75.0	79.6	81.3	11.0	3.5
7	69.2	72.4	75.2	79.9	81.6	10.7	3.2
8	69.2	72.7	75.3	80.2	80.2	11.0	3.5
9	70.0	73.4	75.5	80.6	80.6	10.6	3.4
10	71.8	74.8	76.4	81.8	84.0	10.0	3.0
11	72.3	74.8	76.1	81.8	84.2	9.5	2.5
12	71.4	74.0	75.7	81.1	83.7	9.7	2.6
13	71.5	74.0	76.2	81.4	83.1	9.9	2.5
14	72.3	74.8	77.0	82.3	83.5	10.0	2.5
15	72.9	75.5	77.3	82.8	83.9	9.9	2.6
16	73.5	76.3	77.5	83.4	85.8	9.9	2.8
17	74.4	77.1	78.1	84.4	86.6	10.0	2.7
18	75.6	78.2	79.2	85.4	86.8	9.8	2.6
19	75.6	78.4	79.6	85.3	85.3	9.7	2.8
20	75.3	78.3	79.4	85.4	85.4	10.1	3.0
21	74.4	77.5	78.7	84.7	84.7	10.3	3.1
22	73.5	76.7	77.8	84.1	84.1	10.6	3.2
23	72.6	76.0	77.1	83.7	83.7	11.1	3.4
24	71.0	74.7	76.1	82.6	82.6	11.6	3.7
25	70.4	73.8	75.6	81.3	81.3	10.9	3.4
26	69.5	72.9	75.5	81.0	81.0	11.5	3.4
27	70.9	74.6	76.6	81.8	81.8	10.9	3.7
OH → 28	71.9	75.8	77.6	82.7	82.7	10.8	3.9
29	72.0	76.1	77.8	82.9	82.9	10.9	4.1
30	71.6	75.9	77.4	82.6	82.6	11.0	4.3
31	71.0	75.4	77.0	82.4	82.4	11.4	4.4
32	71.4	75.3	76.9	82.3	82.3	10.9	3.9
33	70.9	74.6	76.4	82.0	82.0	11.1	3.7
34	70.2	73.5	75.2	81.1	81.1	10.9	3.3
35	68.5	71.8	74.0	79.7	79.7	11.2	3.3
36	67.0	70.7	72.9	78.6	78.6	11.6	3.7
37	65.5	69.7	72.1	78.1	78.1	12.6	4.2
38	64.1	68.8	71.2	77.4	77.4	13.3	4.7
39	62.9	67.8	70.3	76.5	76.5	13.6	4.9
40	62.1	67.0	69.3	75.8	75.8	13.7	4.9

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 106, 144 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	67.9	71.6	75.6	77.8	77.8	9.9	3.7
2	66.9	70.8	75.0	77.1	77.1	10.2	3.9
3	67.1	70.4	74.9	77.2	78.5	10.1	3.3
4	69.2	72.1	75.7	78.9	80.3	9.7	2.9
5	70.4	73.0	76.4	79.7	80.8	9.3	2.6
6	71.1	73.8	77.1	80.4	80.4	9.3	2.7
7	74.1	76.5	78.7	82.9	82.9	8.8	2.4
8	77.7	80.1	81.3	86.3	86.3	8.6	2.4
9	78.7	81.4	82.4	87.4	87.4	8.7	2.7
10	78.5	81.5	82.5	87.7	87.7	9.2	3.0
11	77.9	81.0	82.3	87.4	87.4	9.5	3.1
12	78.5	81.9	83.0	88.5	88.5	10.0	3.4
13	79.0	82.6	83.8	89.9	91.0	10.9	3.6
14	78.3	82.2	83.2	89.8	91.0	11.5	3.9
15	76.8	80.7	81.7	88.5	88.5	11.7	3.9
16	75.7	79.8	80.2	86.4	86.4	10.7	4.1
OH → 17	76.3	80.0	80.3	86.3	86.3	10.0	3.7
18	77.1	80.8	81.0	86.9	86.9	9.8	3.7
19	77.6	81.1	81.5	88.0	88.0	10.4	3.5
20	77.8	81.3	81.9	88.4	88.4	10.6	3.5
21	77.4	80.9	81.5	88.0	88.0	10.6	3.5
22	76.5	79.9	80.7	86.9	86.9	10.4	3.4
23	74.9	78.3	79.3	85.1	85.1	10.2	3.4
24	73.2	76.6	78.1	83.3	83.3	10.1	3.4
25	71.4	75.3	76.8	82.0	82.0	10.6	3.9
26	70.5	74.3	75.8	81.1	81.1	10.6	3.8
27	69.0	72.8	74.4	79.5	80.3	10.5	3.8
28	67.5	71.0	73.1	78.4	79.5	10.9	3.5
29	65.9	69.5	72.2	77.3	78.3	11.4	3.6
30	64.7	68.3	71.2	76.3	77.5	11.6	3.6

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 107, 144 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	66.3	69.7	72.8	77.4	77.4	11.1	3.4
2	66.9	70.2	73.2	78.0	79.2	11.1	3.3
3	67.4	70.6	73.8	78.4	79.4	11.0	3.2
4	67.9	70.6	74.0	78.5	79.6	10.6	2.7
5	67.1	70.0	73.9	78.1	78.1	11.0	2.9
6	66.0	69.6	74.2	77.6	77.6	11.6	3.6
7	65.1	69.8	74.8	77.4	77.4	12.3	4.7
8	66.2	70.8	75.5	78.1	78.1	11.9	4.6
9	68.9	72.9	76.6	80.6	80.6	11.7	4.0
10	73.1	76.5	78.9	84.1	85.5	11.0	3.4
11	75.2	78.4	80.3	86.0	86.0	10.8	3.2
12	77.1	80.3	81.6	87.5	88.5	10.4	3.2
13	77.4	80.4	81.7	87.5	89.8	10.1	3.0
14	77.8	81.1	81.9	88.4	90.8	10.6	3.3
15	76.8	80.2	81.2	88.1	90.2	11.3	3.4
16	75.9	79.8	80.9	87.7	87.7	11.8	3.9
17	74.7	78.7	79.8	86.3	87.4	11.6	4.0
18	75.1	79.1	79.8	86.2	86.2	11.1	4.0
OH → 19	75.4	79.1	79.6	85.7	85.7	10.3	3.7
20	75.8	79.4	80.3	86.0	86.0	10.2	3.6
21	75.8	79.6	80.7	86.1	86.1	10.3	3.8
22	75.9	80.0	81.4	86.5	86.5	10.6	4.1
23	75.4	79.7	80.9	86.3	86.3	10.9	4.3
24	75.0	79.1	80.2	85.7	85.7	10.7	4.1
25	74.1	78.0	78.8	84.7	84.7	10.6	3.9
26	73.5	77.3	78.1	84.0	84.0	10.5	3.8
27	72.0	76.0	77.2	82.6	82.6	10.6	4.0
28	70.5	74.8	76.2	81.5	81.5	11.0	4.3
29	69.3	73.8	75.4	80.6	80.6	11.3	4.5
30	68.9	73.5	74.9	80.4	80.4	11.5	4.6
31	68.0	72.8	74.2	79.8	79.8	11.8	4.8
32	66.4	71.1	72.9	78.5	78.5	12.1	4.7
33	64.4	69.0	71.1	77.1	77.1	12.7	4.6
34	63.2	67.9	69.8	76.1	76.1	12.9	4.7

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 108, 150 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	68.9	71.8	76.3	79.2	80.3	10.3	2.9
2	71.2	73.4	77.0	80.6	81.8	9.4	2.2
3	71.8	74.3	77.5	81.2	81.2	9.4	2.5
4	72.4	75.2	78.1	82.2	82.2	9.8	2.8
5	74.7	77.6	79.7	84.4	84.4	9.7	2.9
6	77.9	80.7	81.6	87.4	88.8	9.5	2.8
7	80.2	83.0	83.7	89.6	90.8	9.4	2.8
8	82.0	84.3	84.9	91.1	91.1	9.1	2.3
9	82.3	84.9	85.5	91.5	91.5	9.2	2.6
10	81.9	84.8	85.5	91.6	91.6	9.7	2.9
11	80.3	84.0	84.6	91.0	91.0	10.7	3.7
12	78.7	82.6	83.3	90.3	91.4	11.6	3.9
13	77.4	81.3	81.8	89.2	89.2	11.8	3.9
14	77.6	81.0	81.6	88.0	89.4	10.4	3.4
OH → 15	78.3	81.6	82.3	88.5	89.7	10.2	3.3
16	78.3	81.8	82.6	88.4	88.4	10.1	3.5
17	78.0	81.8	82.7	88.6	88.6	10.6	3.8
18	76.8	80.8	81.9	87.8	87.8	11.0	4.0
19	75.8	79.9	81.0	86.6	86.6	10.8	4.1
20	74.6	78.6	79.9	85.3	86.8	10.7	4.0
21	74.0	78.0	79.3	84.9	86.1	10.9	4.0
22	73.1	77.0	78.3	84.1	84.1	11.0	3.9
23	71.4	75.2	76.7	82.4	83.4	11.0	3.8
24	69.3	73.2	75.0	81.0	81.0	11.7	3.9
25	66.6	70.7	73.5	79.0	80.1	12.4	4.1

TABLE 8-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 109, 150 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(EB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.0	68.2	74.2	75.7	75.7	13.7	6.2
2	61.7	68.3	74.7	75.6	75.6	13.9	6.6
3	64.9	69.6	75.4	77.0	78.1	12.1	4.7
4	71.0	73.9	77.0	81.4	82.5	10.4	2.9
5	73.6	75.8	78.0	83.2	84.7	9.6	2.2
6	75.5	78.1	79.5	84.7	86.2	9.2	2.6
7	76.5	79.4	80.4	85.7	86.8	9.2	2.9
8	77.0	80.2	81.3	86.6	87.6	9.6	3.2
9	78.0	80.9	81.8	87.4	89.0	9.4	2.9
10	80.7	83.3	83.6	90.0	90.0	9.3	2.6
11	81.4	84.1	84.4	90.7	90.7	9.3	2.7
12	81.5	84.5	84.8	91.4	93.0	9.9	3.0
13	79.8	83.4	83.9	90.7	93.0	10.9	3.6
14	78.4	82.5	82.9	90.1	91.7	11.7	4.1
15	76.7	80.9	81.2	88.3	88.3	11.6	4.2
16	76.2	80.2	80.6	87.0	87.0	10.8	4.0
OH. → 17	76.5	80.2	81.0	86.6	86.6	10.1	3.7
18	77.1	80.9	81.9	87.1	87.1	10.0	3.8
19	77.9	81.7	82.5	88.0	88.0	10.1	3.3
20	77.8	81.6	82.6	88.1	88.1	10.3	3.8
21	77.2	81.0	82.1	87.8	87.8	10.6	3.8
22	75.9	79.6	81.2	86.9	86.9	11.0	3.7
23	74.7	78.3	79.8	85.5	85.5	10.8	3.6
24	73.2	77.0	78.8	83.8	83.8	10.6	3.8
25	71.9	75.8	77.7	82.7	84.0	10.8	3.9
26	71.0	74.9	76.6	82.0	82.0	11.0	3.9
27	69.3	73.5	75.2	80.7	80.7	11.4	4.2
28	67.3	71.8	73.9	79.5	80.7	12.2	4.5

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 110, 130 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	57.8	65.6	71.3	73.4	73.4	15.6	7.8
2	60.2	66.6	71.8	74.2	74.2	14.0	6.4
3	62.0	67.5	72.6	75.5	76.9	13.5	5.5
4	65.3	69.6	73.7	77.5	78.5	12.2	4.3
5	69.0	72.1	75.2	79.6	80.7	10.6	3.1
6	70.2	73.2	75.9	80.6	81.7	10.4	3.0
7	71.3	74.0	76.4	81.3	81.3	10.0	2.7
8	72.5	75.2	77.2	82.3	83.4	9.8	2.7
9	75.1	77.2	78.9	84.3	85.3	9.2	2.1
10	76.4	78.3	79.8	85.3	87.0	8.9	1.9
11	76.5	78.4	80.0	85.5	87.1	9.0	1.9
12	75.3	77.6	79.4	84.6	84.6	9.3	2.3
13	74.3	77.0	79.2	83.9	84.9	9.6	2.7
14	74.5	77.5	79.6	84.8	85.0	10.3	3.0
15	75.6	79.0	80.6	86.3	86.3	10.7	3.4
16	76.9	80.3	81.4	87.2	87.2	10.3	3.4
17	77.0	80.3	81.4	87.5	89.0	10.5	3.3
18	76.6	80.0	81.1	87.6	89.7	11.0	3.4
19	75.7	79.3	80.6	87.2	88.5	11.5	3.6
20	75.2	79.1	80.2	86.7	86.7	11.5	3.9
21	75.2	79.0	79.7	86.2	87.4	11.0	3.8
22	74.9	78.9	79.4	85.8	87.1	10.9	4.0
oil → 23	75.5	79.2	79.9	86.0	86.0	10.5	3.7
24	76.1	79.7	80.4	86.3	86.3	10.2	3.6
25	76.7	80.1	80.4	86.8	86.8	10.1	3.4
26	76.4	79.9	80.1	86.7	86.7	10.3	3.5
27	75.4	79.1	79.3	85.8	85.8	10.4	3.7
28	74.1	77.8	78.5	84.4	84.4	10.3	3.7
29	72.9	76.6	77.8	83.3	83.3	10.4	3.7
30	72.3	75.8	77.3	82.7	84.0	10.4	3.5
31	71.2	74.7	76.4	82.2	82.2	11.0	3.5
32	70.7	73.9	75.5	81.7	81.7	11.0	3.2
33	69.1	72.6	74.5	80.4	81.7	11.3	3.5
34	68.5	72.0	73.6	80.0	81.0	11.5	3.5
35	67.1	70.9	72.6	79.2	79.2	12.1	3.8
36	66.4	70.3	72.0	78.6	79.9	12.2	3.9
37	65.5	69.6	71.5	77.9	77.9	12.4	4.1
38	64.1	68.4	70.5	76.6	76.6	12.5	4.3

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 56, 3 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	67.0	71.2	76.9	79.2	79.2	12.2	4.2
2	66.9	71.1	76.7	79.1	79.1	12.2	4.2
3	66.4	71.0	77.4	78.6	78.6	12.2	4.6
4	67.5	72.1	79.1	79.3	80.5	11.8	4.6
5	69.2	73.5	80.1	80.9	82.4	11.7	4.3
6	70.5	74.8	80.0	81.9	83.4	11.4	4.3
7	70.7	75.1	79.4	82.0	83.2	11.3	4.4
8	70.4	75.2	80.4	81.9	81.9	11.5	4.8
9	69.7	75.0	81.1	81.7	82.8	12.0	5.3
10	69.6	74.9	81.1	81.7	83.5	12.1	5.3
11	69.6	74.9	80.6	82.5	83.9	12.9	5.3
12	70.2	75.3	81.0	83.4	83.4	13.2	5.1
13	71.0	76.2	81.3	84.3	84.3	13.3	5.2
14	72.2	77.0	81.5	85.1	85.1	12.9	4.8
15	74.2	78.9	82.6	86.6	86.6	12.4	4.7
16	75.1	80.2	83.6	87.7	87.7	12.6	5.1
17	75.9	81.0	84.6	88.1	88.1	12.2	5.1
18	76.8	82.0	85.4	89.1	89.1	12.3	5.2
19	77.3	82.2	86.1	89.8	89.8	12.5	4.9
20	77.8	82.4	86.2	90.1	90.1	12.3	4.6
OH → 21	77.7	82.2	85.7	89.3	89.8	12.1	4.5
22	77.8	82.2	85.0	89.5	89.5	11.7	4.4
23	77.7	82.3	85.2	89.7	89.7	12.0	4.6
24	77.1	81.8	85.2	89.4	89.4	12.3	4.7
25	76.5	81.4	84.8	89.0	89.0	12.5	4.9
26	75.9	80.3	83.6	87.5	87.5	11.6	4.4
27	75.0	79.4	82.6	86.4	86.4	11.4	4.4
28	73.9	78.4	82.0	85.5	85.5	11.6	4.5
29	72.2	77.2	81.3	84.3	84.3	12.1	5.0
30	71.8	76.4	80.4	83.3	83.3	11.5	4.6
31	70.4	74.9	79.3	82.0	82.0	11.6	4.5
32	68.8	73.8	79.6	80.7	80.7	11.9	5.0
33	66.4	72.4	78.5	79.5	80.9	13.1	6.0
34	65.1	71.4	78.3	78.7	80.2	13.6	6.3
35	63.8	70.4	77.1	77.9	77.9	14.1	6.6

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 58, 69 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	58.9	65.3	72.1	74.4	74.4	15.5	6.4
2	61.5	66.5	72.2	75.0	76.3	13.5	5.0
3	64.1	67.9	72.6	76.5	77.9	12.4	3.8
4	65.5	68.8	73.1	77.5	78.9	12.0	3.3
5	66.6	69.8	73.7	78.4	80.0	11.8	3.2
6	68.1	71.3	74.6	79.6	81.4	11.5	3.2
7	69.8	72.4	75.1	80.8	82.4	11.0	2.6
8	70.1	72.8	75.4	81.1	82.7	11.0	2.7
9	69.4	72.2	75.4	80.8	82.5	11.4	2.8
10	68.2	71.7	75.5	80.4	82.2	12.2	3.5
11	68.2	72.0	75.8	80.6	82.0	12.4	3.8
12	68.2	71.9	76.0	80.4	80.4	12.2	3.7
13	67.7	71.8	76.1	80.1	81.1	12.4	4.1
14	67.4	71.5	76.4	79.5	80.8	12.1	4.1
15	69.9	73.5	77.5	81.0	81.0	11.1	3.6
16	74.1	77.0	79.3	84.0	85.0	9.9	2.9
17	74.1	77.2	79.4	84.1	85.3	10.0	3.1
18	73.5	77.0	79.3	83.6	85.0	10.1	3.5
19	70.0	75.0	78.3	82.5	85.1	12.5	5.0
20	70.3	75.3	78.3	83.1	85.8	12.8	5.0
21	69.7	74.8	78.1	82.8	84.8	13.1	5.1
22	69.5	74.6	78.4	82.5	83.7	13.0	5.1
23	70.2	75.3	79.2	83.3	83.3	13.1	5.1
24	71.4	76.5	80.0	84.4	84.4	13.0	5.1
25	72.6	77.6	80.7	85.2	85.2	12.6	5.0
26	73.5	78.2	81.0	85.3	85.3	11.8	4.7
27	74.0	78.7	81.4	85.8	85.8	11.8	4.7
28	74.6	79.5	81.8	86.7	86.7	12.1	4.9
29	75.0	79.9	82.2	87.1	87.1	12.1	4.9
30	75.7	80.5	82.6	87.6	87.6	11.9	4.8
OH → 31	76.0	80.7	82.9	87.8	87.8	11.8	4.7
32	75.8	80.5	82.6	87.6	87.6	11.8	4.7
33	75.0	79.7	81.9	86.9	86.9	11.9	4.7
34	73.9	78.6	81.0	86.1	86.1	12.2	4.7
35	73.2	78.1	80.4	85.8	85.8	12.6	4.9
36	72.6	77.6	79.8	85.1	85.1	12.5	5.0
37	72.3	77.0	79.2	84.3	84.3	12.0	4.7
38	71.0	75.6	78.3	82.5	82.5	11.5	4.6
39	69.7	74.1	77.4	81.4	81.4	11.7	4.4
40	67.3	72.0	76.1	80.0	80.0	12.7	4.7
41	65.5	70.5	74.8	78.6	78.6	13.1	5.0
42	63.8	68.9	73.6	77.4	77.4	13.6	5.1
43	63.7	68.7	73.1	76.7	76.7	13.0	5.0
44	64.4	69.1	73.0	77.1	77.1	12.7	4.7

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 59, 69 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.7	67.7	75.4	76.1	77.2	14.4	6.0
2	63.8	68.5	75.5	77.2	78.4	13.4	4.7
3	65.2	69.7	76.8	78.2	79.4	13.0	4.5
4	66.2	70.6	77.5	79.1	80.6	12.9	4.4
5	65.9	70.6	77.6	79.0	80.5	13.1	4.7
6	66.2	70.9	76.9	79.4	79.4	13.2	4.7
7	68.3	72.3	76.9	80.1	80.1	11.8	4.0
8	70.3	74.1	77.4	81.3	81.3	11.0	3.8
9	71.6	75.2	77.9	82.0	83.5	10.4	3.6
10	71.9	75.5	78.4	82.0	83.4	10.1	3.6
11	71.7	75.5	78.8	82.0	82.0	10.3	3.8
12	70.9	75.0	79.0	81.8	81.8	10.9	4.1
13	70.1	74.7	79.2	81.4	83.0	11.3	4.6
14	69.3	74.1	78.8	81.2	83.2	11.9	4.8
15	69.0	74.0	78.6	81.8	83.2	12.8	5.0
16	68.9	74.0	78.5	82.0	82.0	13.1	5.1
17	68.9	74.2	78.5	82.4	82.4	13.5	5.3
18	69.6	75.0	79.0	83.0	83.0	13.4	5.4
19	69.9	75.5	79.5	83.5	83.5	13.6	5.6
20	70.2	75.9	79.9	84.0	84.0	13.8	5.7
21	72.0	77.4	80.7	84.7	84.7	12.7	5.4
22	73.6	78.6	81.4	85.7	85.7	12.1	5.0
23	75.0	79.6	82.4	87.0	87.0	12.0	4.6
24	75.1	79.8	82.7	87.3	87.3	12.2	4.7
25	75.4	80.0	82.9	87.4	87.4	12.0	4.6
26	75.7	80.3	83.1	87.5	87.5	11.8	4.6
OH → 27	75.9	80.5	83.4	87.7	87.7	11.8	4.6
28	75.5	80.1	83.0	87.5	87.5	12.0	4.6
29	74.3	79.2	82.1	86.7	86.7	12.4	4.9
30	73.2	78.3	80.9	85.9	85.9	12.7	5.1
31	72.1	77.6	80.2	85.1	85.1	13.0	5.5
32	71.5	76.6	79.4	84.1	84.1	12.6	5.1
33	70.2	75.2	78.4	82.4	82.4	12.2	5.0
34	69.4	73.9	77.3	81.2	81.2	11.8	4.5
35	68.7	73.1	76.6	80.5	80.5	11.8	4.4
36	67.8	72.0	75.9	79.6	79.6	11.8	4.2
37	66.4	70.7	75.0	78.8	78.8	12.4	4.3
38	64.1	69.3	74.3	77.5	77.5	13.4	5.2
39	62.8	68.4	73.5	76.4	76.4	13.6	5.6
	62.8	67.8	73.4	76.3	76.3	14.3	5.9

TABLE B-II

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 60, 110 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	64.3	68.6	75.9	77.0	78.2	12.7	4.3
2	64.7	68.8	75.3	77.3	78.7	12.6	4.1
3	65.4	69.3	75.5	77.7	79.3	12.3	3.9
4	66.1	70.0	76.0	77.9	79.4	11.8	3.9
5	66.7	70.8	76.6	78.6	78.6	11.9	4.1
6	66.6	70.9	76.7	78.8	78.8	12.2	4.3
7	66.5	70.8	76.3	78.8	78.8	12.3	4.3
8	67.8	71.4	76.2	79.3	80.4	11.5	3.6
9	68.0	71.7	76.7	79.4	80.5	11.4	3.7
10	68.2	72.0	77.4	79.6	79.6	11.4	3.8
11	69.4	73.3	78.0	80.8	80.8	11.4	3.9
12	71.2	75.2	78.7	82.5	84.2	11.3	4.0
13	71.8	76.1	79.5	83.3	85.5	11.5	4.3
14	71.1	75.9	79.8	83.2	85.5	12.1	4.8
15	71.6	76.5	80.5	83.6	83.6	12.0	4.9
16	72.4	77.1	80.9	83.6	84.6	11.2	4.7
17	73.3	77.7	80.9	84.4	84.4	11.1	4.4
18	73.5	77.8	80.7	84.8	84.8	11.3	4.3
19	74.0	78.3	81.0	85.5	85.5	11.5	4.3
20	73.8	78.5	81.9	85.9	85.9	12.1	4.7
21	74.3	79.3	82.8	86.3	86.3	12.0	5.0
22	74.7	79.7	83.5	86.9	86.9	12.2	5.0
23	75.3	80.1	83.7	87.4	87.4	12.1	4.8
24	75.9	80.4	83.7	87.4	87.4	11.5	4.5
OH → 25	75.8	80.2	83.0	87.5	87.5	11.7	4.4
26	74.9	79.5	82.0	86.9	86.9	12.0	4.6
27	73.0	77.8	80.5	85.3	85.3	12.3	4.8
28	71.5	76.1	79.6	83.0	83.0	11.5	4.6
29	70.0	74.4	79.5	81.7	81.7	11.7	4.4
30	68.5	72.6	79.3	80.3	80.3	11.8	4.1
31	67.2	71.3	79.2	79.6	80.6	12.4	4.1
32	66.1	70.4	78.4	78.6	80.0	12.5	4.3
33	64.7	69.7	77.9	77.8	77.8	13.1	5.0
34	62.9	68.6	78.6	76.9	78.0	14.0	5.7
35	62.0	68.0	78.4	76.2	77.3	14.2	6.0

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 61, 110 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.3	70.3	76.3	78.2	78.2	12.9	5.0
2	65.3	70.4	76.3	78.3	78.3	13.0	5.1
3	65.4	70.3	76.3	78.4	78.4	13.0	4.9
4	66.4	71.3	76.9	79.0	79.0	12.6	4.9
5	68.3	72.5	77.4	80.3	81.5	12.0	4.2
6	69.6	73.4	78.0	81.1	83.3	11.5	3.8
7	69.9	74.0	78.3	81.4	83.8	11.5	4.1
8	70.2	74.5	78.8	81.8	83.7	11.6	4.3
9	71.4	75.9	79.3	83.0	84.2	11.6	4.5
10	72.4	76.9	79.5	83.5	85.4	11.1	4.5
11	72.7	77.3	79.4	83.6	84.9	10.9	4.6
12	72.8	77.4	79.7	84.2	84.2	11.4	4.6
13	73.3	78.0	80.4	85.0	85.0	11.7	4.7
14	74.1	78.5	81.1	86.0	86.0	11.9	4.4
15	74.5	79.1	81.8	86.4	87.4	11.9	4.6
16	75.6	80.2	82.7	87.4	87.4	11.8	4.6
17	76.6	81.3	83.6	88.2	88.2	11.6	4.7
OH → 18	76.9	81.4	83.8	88.3	88.3	11.4	4.5
19	76.0	80.6	83.1	87.8	87.8	11.8	4.6
20	74.4	79.2	81.6	86.8	86.8	12.4	4.8
21	72.9	77.6	80.0	85.2	85.2	12.3	4.7
22	71.3	75.9	78.6	83.1	83.1	11.8	4.6
23	69.6	74.0	77.6	81.7	81.7	12.1	4.4
24	68.1	72.5	76.4	80.3	80.3	12.2	4.4
25	67.0	71.4	75.3	79.7	79.7	12.7	4.4
26	65.5	70.1	74.5	78.6	78.6	13.1	4.6
27	64.1	69.2	74.3	77.3	77.3	13.2	5.1
28	63.9	69.1	74.2	77.4	77.4	13.5	5.2

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 65, 6 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.8	71.6	75.3	79.1	79.1	12.3	4.8
2	65.8	71.2	75.4	78.6	78.6	12.8	5.4
3	65.6	71.2	75.6	78.5	79.5	12.9	5.6
4	68.7	73.4	76.8	80.7	82.2	12.0	4.7
5	70.8	74.6	77.4	82.1	83.5	11.3	3.8
6	72.0	75.4	78.0	82.6	82.6	10.6	3.4
7	71.8	74.9	77.6	82.1	83.3	10.3	3.1
8	70.6	73.9	76.8	81.4	83.1	10.8	3.3
9	68.9	72.6	76.5	80.2	82.3	11.3	3.7
10	68.1	72.4	76.7	80.0	82.5	11.9	4.3
11	70.1	74.3	77.8	81.4	83.1	11.3	4.2
12	72.4	76.5	79.1	83.5	83.5	11.1	4.1
13	73.5	77.7	80.4	85.2	85.2	11.7	4.2
14	73.5	77.9	80.6	85.5	86.6	12.0	4.4
15	73.3	77.6	80.6	85.2	85.2	11.9	4.3
16	74.1	77.9	80.7	85.5	85.5	11.4	3.8
17	74.2	78.3	81.3	85.7	85.7	11.5	4.1
18	74.1	78.4	81.8	85.9	85.9	11.8	4.3
19	73.8	78.7	82.4	86.0	86.0	12.2	4.9
20	74.7	79.3	83.2	86.3	86.3	11.6	4.6
21	77.5	81.6	84.2	88.5	88.5	11.0	4.1
22	77.8	82.0	84.5	89.1	89.1	11.3	4.2
OH → 23	77.7	81.8	84.4	88.9	88.9	11.2	4.1
24	76.4	80.7	84.0	87.9	87.9	11.5	4.3
25	77.4	81.3	84.0	88.6	88.6	11.2	3.9
26	78.0	82.0	83.9	89.3	89.3	11.3	4.0
27	78.3	82.5	84.0	89.5	89.5	11.2	4.2
28	77.6	81.9	83.5	89.0	89.0	11.4	4.3
29	76.6	81.0	82.7	88.2	88.2	11.6	4.4
30	75.8	80.2	82.1	87.0	87.0	11.2	4.4
31	77.1	81.0	82.8	87.6	87.6	10.5	3.9
32	78.1	81.7	83.5	88.7	89.8	10.6	3.6
33	77.9	81.2	83.1	88.4	86.4	10.5	3.3
34	76.1	79.6	81.7	86.6	86.6	10.5	3.5
35	73.3	77.1	80.0	84.0	84.0	10.7	3.8
36	70.9	75.4	79.5	82.3	82.3	11.4	4.5
37	69.8	74.3	79.3	81.2	82.4	11.4	4.5
38	69.3	73.9	78.9	80.6	82.5	11.3	4.6
39	68.7	73.1	77.6	79.9	81.9	11.2	4.4
40	67.1	71.8	76.9	79.1	80.3	12.0	4.7
41	65.2	70.3	76.3	78.2	79.2	13.0	5.1
42	63.8	68.7	76.0	77.5	78.8	14.8	5.8

TABLE 8-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 83, 9 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.4	71.5	75.4	78.7	80.9	13.3	6.1
2	65.9	71.7	75.7	79.0	80.7	13.1	5.8
3	66.9	72.4	76.5	80.1	81.2	13.2	5.5
4	67.8	73.2	77.1	81.0	81.0	13.2	5.4
5	68.9	74.2	77.8	81.8	81.8	12.9	5.3
6	70.7	75.7	78.4	82.9	82.9	12.2	5.0
7	72.1	76.7	79.2	83.9	83.9	11.8	4.6
8	72.4	76.9	79.7	84.3	84.3	11.9	4.5
9	73.1	77.6	80.6	85.0	85.0	11.9	4.5
10	74.0	78.5	81.7	85.9	85.9	11.9	4.5
11	74.5	79.1	82.5	86.6	87.8	12.1	4.6
12	75.1	79.9	83.3	87.2	88.5	12.1	4.8
13	76.4	81.0	84.2	87.8	87.8	11.4	4.6
14	77.6	81.8	84.8	88.9	88.9	11.3	4.2
15	77.9	82.2	85.2	89.2	89.2	11.3	4.3
16	78.0	82.3	85.1	89.2	89.2	11.2	4.3
OH → 17	77.9	82.3	85.0	89.2	89.2	11.3	4.4
18	78.2	82.5	84.8	89.5	89.5	11.3	4.3
19	78.3	82.7	84.5	89.8	89.8	11.5	4.4
20	78.3	82.8	84.1	90.1	90.1	11.8	4.5
21	77.7	82.1	83.1	89.2	89.2	11.5	4.4
22	76.6	80.8	82.0	87.6	87.6	11.0	4.2
23	75.0	79.2	80.7	86.0	86.0	11.0	4.2
24	73.8	77.9	79.8	84.9	84.9	11.1	4.1
25	72.3	76.7	79.3	83.9	83.9	11.6	4.4
26	70.9	75.4	78.5	82.6	82.6	11.7	4.5
27	69.4	74.2	77.6	81.3	81.3	11.9	4.8
28	68.2	72.9	76.4	80.2	81.4	12.0	4.7
29	66.6	71.6	76.0	79.0	80.3	12.4	5.0
30	64.8	70.5	76.3	78.4	78.4	13.6	5.7
31	64.1	70.2	77.1	78.1	78.1	14.0	6.1

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 104, 130 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	GASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	56.4	65.4	68.7	72.6	72.6	16.2	9.0
2	57.6	66.0	69.5	72.9	72.9	15.3	8.4
3	60.0	67.0	70.6	74.3	75.3	14.3	7.0
4	62.9	68.3	71.8	75.8	76.9	12.9	5.4
5	63.5	68.7	72.6	76.1	77.2	12.6	5.2
6	62.7	68.6	73.0	75.7	75.7	13.0	5.9
7	60.7	68.2	73.6	75.2	75.2	14.5	7.5
8	63.7	69.3	74.2	77.0	77.0	13.3	5.6
9	66.3	71.1	75.0	78.5	78.5	12.2	4.8
10	68.6	72.7	75.7	79.8	79.8	11.2	4.1
11	70.7	74.0	76.4	81.1	81.1	10.4	3.3
12	72.6	75.7	77.7	82.7	82.7	10.1	3.1
13	72.5	75.7	77.9	82.7	82.7	10.2	3.2
14	71.4	75.1	77.8	82.4	82.4	11.0	3.7
15	68.7	73.3	76.8	81.3	82.6	12.6	4.6
16	69.9	74.6	77.3	82.3	84.7	12.4	4.7
17	70.9	75.3	77.5	83.0	85.4	12.1	4.4
18	71.1	75.4	77.5	83.1	85.3	12.0	4.3
19	70.7	75.3	77.4	82.9	84.3	12.2	4.6
20	71.7	76.0	78.0	83.6	85.1	11.9	4.3
21	72.4	76.6	78.4	83.7	85.4	11.3	4.2
22	72.2	76.3	78.2	83.0	84.3	10.8	4.1
23	70.9	75.4	77.7	82.0	82.0	11.1	4.5
24	70.5	75.0	77.3	81.9	81.9	11.4	4.5
25	70.7	75.1	77.5	82.3	82.3	11.6	4.4
26	71.4	75.9	78.0	83.2	83.2	11.8	4.5
27	71.9	76.5	78.5	83.7	83.7	11.8	4.6
28	72.5	76.9	78.8	83.8	83.8	11.3	4.4
29	72.4	76.8	78.9	83.6	83.6	11.2	4.4
30	72.8	77.1	79.5	84.1	84.1	11.3	4.3
31	72.8	77.0	79.7	83.8	83.8	11.0	4.2
OH → 32	73.1	77.3	79.9	84.6	84.6	11.5	4.2
33	73.1	77.3	79.8	85.0	85.0	11.9	4.2
34	72.9	77.3	79.4	84.8	84.8	11.9	4.4
35	72.2	76.7	78.8	84.0	84.0	11.8	4.5
36	71.0	75.7	77.6	83.3	83.3	12.3	4.7
37	69.7	74.6	76.3	82.2	82.2	12.5	4.9
38	68.8	73.5	74.8	80.8	80.8	12.0	4.7
39	67.9	72.5	73.8	79.5	79.5	11.6	4.6
40	67.1	71.5	72.7	78.8	78.8	11.7	4.4
41	65.8	70.4	71.5	77.9	77.9	12.1	4.6
42	64.1	69.2	69.8	77.2	77.2	13.1	5.1
43	63.2	68.6	69.0	76.8	76.8	13.6	5.4
44	61.6	67.8	68.2	75.7	75.7	14.1	6.2

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 105, 130 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	59.9	57.6	71.7	74.8	74.8	14.9	7.7
2	61.5	68.3	72.0	75.9	75.9	14.4	6.8
3	62.5	68.8	72.4	76.4	76.4	13.9	6.3
4	62.8	69.0	72.8	76.7	76.7	13.9	6.2
5	64.1	69.8	73.3	77.5	77.5	13.4	5.7
6	64.5	70.1	73.7	77.9	77.9	13.4	5.6
7	65.4	70.6	74.2	78.3	78.3	12.9	5.2
8	66.9	71.6	74.9	79.1	79.1	12.2	4.7
9	68.5	72.7	75.7	80.2	80.2	11.7	4.2
10	70.3	74.1	76.4	81.5	82.7	11.2	3.8
11	70.2	74.1	76.3	81.6	83.4	11.4	3.9
12	69.5	73.7	76.2	81.3	83.4	11.8	4.2
13	70.3	74.5	76.8	82.3	83.3	12.0	4.2
14	72.3	76.3	78.0	83.9	83.9	11.6	4.0
15	72.9	76.9	78.3	84.2	85.6	11.3	4.0
16	72.0	76.4	77.9	83.5	85.6	11.5	4.4
17	70.4	75.4	77.4	82.0	83.9	11.6	5.0
18	70.4	75.5	77.7	82.5	82.5	12.1	5.1
19	71.2	76.0	78.2	83.1	83.1	11.9	4.8
20	72.0	76.3	78.4	83.3	83.3	11.3	4.3
21	71.5	75.8	77.8	82.9	82.9	11.4	4.3
22	71.0	75.5	77.5	83.0	83.0	12.0	4.5
23	71.3	75.8	77.8	83.2	84.4	11.9	4.5
24	71.9	76.2	78.2	83.3	83.3	11.4	4.3
25	72.5	76.7	78.5	83.5	83.5	11.0	4.2
26	72.3	76.7	78.9	83.8	83.8	11.5	4.4
27	72.3	76.7	79.2	83.6	83.6	11.3	4.4
28	72.0	76.2	79.2	83.7	83.7	11.7	4.2
29	72.8	76.7	79.5	84.5	84.5	11.7	3.9
30	73.2	77.3	79.8	85.0	85.0	11.8	4.1
31	72.9	77.4	79.6	84.7	84.7	11.8	4.5
32	72.1	76.9	78.9	84.1	84.1	12.0	4.8
33	71.0	76.0	77.8	83.4	83.4	12.4	5.0
34	70.2	75.3	76.9	82.6	82.6	12.4	5.1
35	68.8	73.9	75.4	81.1	81.1	12.3	5.1
36	67.7	72.7	74.1	79.9	79.9	12.2	5.0
37	66.1	71.0	72.6	78.8	78.8	12.7	4.9
38	64.9	69.9	71.5	77.7	77.7	12.8	5.0
39	64.3	69.3	70.7	77.8	77.8	13.5	5.0
40	64.5	69.3	70.5	77.8	77.8	13.3	4.8
41	64.4	69.5	70.5	77.5	77.5	13.1	5.1
42	63.4	68.9	69.7	76.0	76.0	12.6	5.5
43	61.6	68.0	68.9	75.2	76.2	13.6	6.4
44	59.3	66.7	67.7	74.0	75.9	14.7	7.4

TABLE B-II

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 106, 144 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	64.9	69.4	74.1	75.8	75.8	10.9	4.5
2	66.2	70.5	75.2	76.8	77.9	10.6	4.3
3	67.9	72.1	76.3	78.6	79.7	10.7	4.2
4	69.3	73.5	77.4	80.0	81.1	10.1	3.6
5	71.1	74.6	78.2	80.9	80.9	9.8	3.5
6	70.9	74.5	78.4	80.7	80.7	9.8	3.6
7	70.1	74.2	78.6	80.2	80.2	10.1	4.1
8	69.3	73.7	78.8	79.6	80.6	10.3	4.4
9	69.6	74.0	79.3	80.2	81.4	10.6	4.4
10	70.9	74.9	79.6	81.4	81.4	10.5	4.0
11	72.3	76.1	80.4	82.7	82.7	10.4	3.8
12	74.2	78.0	81.8	84.4	84.4	10.2	3.8
13	74.9	78.9	82.6	85.3	85.3	10.4	4.0
14	75.4	79.6	83.4	86.4	86.4	11.0	4.2
15	75.4	79.5	83.5	86.8	87.9	11.4	4.1
16	76.6	80.5	84.0	87.5	87.5	10.9	3.9
17	76.8	80.9	84.3	87.2	87.2	10.4	4.1
18	77.3	81.6	84.6	88.3	88.3	11.0	4.3
19	77.7	82.2	85.1	89.3	89.3	11.6	4.5
20	78.3	82.8	85.3	90.2	90.2	11.9	4.5
21	79.1	83.4	85.7	91.2	91.2	12.1	4.3
22	79.0	83.5	85.6	90.9	90.9	11.9	4.5
23	78.6	83.1	85.0	90.4	90.4	11.8	4.5
24	77.3	81.8	83.5	89.3	89.3	12.0	4.5
25	75.4	79.5	81.0	87.2	87.2	11.8	4.1
26	73.3	77.2	78.6	84.6	84.6	11.3	3.9
27	71.1	75.1	76.4	82.9	82.9	11.8	4.0
28	69.9	74.0	75.3	81.3	81.3	11.4	4.1
29	68.0	72.4	74.1	79.4	79.4	11.4	4.4
30	66.5	71.0	73.3	77.9	77.9	11.4	4.5
31	65.1	69.6	72.4	76.4	77.4	11.3	4.5

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 107. 144 MPH FLY BY. CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	66.4	70.7	74.0	77.9	80.6	11.5	4.3
2	66.1	70.6	74.3	78.0	81.0	11.9	4.7
3	65.9	70.9	74.7	77.8	80.3	11.9	5.0
4	68.2	72.0	75.5	79.1	79.1	10.9	3.3
5	68.8	72.2	75.9	79.7	79.7	10.9	3.4
6	68.8	72.1	76.1	79.8	79.8	11.0	3.3
7	68.9	72.5	76.4	80.0	80.0	11.1	3.6
8	69.2	73.1	77.2	80.5	80.5	11.3	3.9
9	70.2	74.1	78.0	81.1	81.1	10.9	3.9
10	71.7	75.6	79.1	82.5	82.5	10.8	3.9
11	73.5	77.2	79.9	83.7	83.7	10.2	3.7
12	74.2	78.0	80.6	84.9	84.9	10.7	3.8
13	74.7	78.6	81.2	85.8	87.4	11.1	3.9
14	74.7	78.9	81.7	86.5	88.4	11.8	4.2
15	75.3	80.0	82.3	87.3	87.3	12.0	4.7
16	75.8	80.4	82.5	87.3	88.4	11.5	4.6
17	76.3	80.6	82.8	86.9	86.9	10.6	4.3
18	76.3	80.4	82.8	87.3	87.3	11.0	4.1
19	76.5	80.8	83.1	88.0	88.0	11.5	4.3
20	76.8	81.4	83.5	88.4	88.4	11.6	4.6
OH → 21	77.3	81.7	83.8	89.0	89.0	11.7	4.4
22	77.4	81.8	84.3	89.3	89.3	11.9	4.4
23	77.7	81.9	84.5	89.4	89.4	11.7	4.2
24	77.3	81.6	83.9	89.0	89.0	11.7	4.3
25	76.6	80.7	82.5	88.1	88.1	11.5	4.1
26	75.0	79.2	80.4	86.5	86.5	11.5	4.2
27	73.2	77.1	78.4	84.4	84.4	11.2	3.9
28	71.2	75.1	76.2	82.7	82.7	11.5	3.9
29	70.3	74.4	75.7	82.3	82.3	12.0	4.1
30	69.3	73.7	75.1	81.5	81.5	12.2	4.4
31	67.6	72.7	74.2	79.8	79.8	12.2	5.1
32	65.5	70.9	72.5	78.5	79.8	13.0	5.4
33	64.4	70.1	71.8	77.3	77.3	12.9	5.7
34	64.2	69.8	71.5	77.0	77.0	12.8	5.6

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 108, 150 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	69.9	73.3	77.1	80.5	81.8	10.6	3.4
2	70.1	73.5	77.2	80.7	82.0	10.6	3.4
3	70.1	73.7	77.5	80.9	82.1	10.8	3.6
4	70.7	74.5	78.0	81.0	81.0	10.3	3.8
5	72.2	75.2	78.5	81.9	81.9	9.7	3.0
6	72.7	75.5	78.9	82.4	82.4	9.7	2.8
7	72.3	75.3	78.8	82.2	82.2	9.9	3.0
8	71.7	75.3	79.1	82.0	82.0	10.3	3.6
9	72.0	75.7	79.4	82.2	82.2	10.2	3.7
10	72.7	76.1	79.9	83.0	83.0	10.3	3.4
11	73.2	76.9	80.7	83.7	83.7	10.5	3.7
12	73.4	77.2	81.4	84.2	84.2	10.8	3.8
13	74.6	78.5	82.3	85.2	85.2	10.6	3.9
14	75.7	79.8	83.2	86.7	86.7	11.0	4.1
15	76.6	80.9	84.2	88.2	89.5	11.6	4.3
16	77.1	81.6	84.8	89.0	89.0	11.9	4.5
17	78.0	82.4	85.4	89.4	89.4	11.4	4.4
18	78.8	83.5	86.1	89.9	89.9	11.1	4.7
19	79.4	84.0	86.6	90.8	90.8	11.4	4.6
20	79.7	84.6	86.8	91.5	91.5	11.8	4.9
21	80.1	84.9	87.0	92.7	92.7	12.6	4.8
OH → 22	80.7	85.3	87.2	93.0	93.0	12.3	4.6
23	80.3	84.6	86.7	92.2	92.2	11.9	4.3
24	79.5	83.7	85.3	90.9	90.9	11.4	4.2
25	77.4	81.8	83.0	88.6	88.6	11.2	4.4
26	75.7	79.9	80.7	86.8	86.8	11.1	4.2
27	73.1	77.4	78.6	84.5	84.5	11.4	4.3
28	71.1	75.5	77.1	82.6	82.6	11.5	4.4
29	68.8	73.8	75.7	80.9	80.9	12.1	5.0
30	66.4	71.6	74.3	78.8	78.8	12.4	5.2
31	64.7	70.3	73.3	77.5	77.5	12.8	5.6

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 109. 150 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	66.2	72.5	74.3	80.3	81.4	14.1	6.3
2	66.8	72.6	74.7	80.4	81.6	13.6	5.8
3	66.5	71.9	74.3	79.9	81.0	13.4	5.4
4	69.1	72.2	74.4	79.8	81.0	10.7	3.1
5	70.2	72.8	74.8	80.0	81.3	9.8	2.6
6	70.4	73.3	75.3	80.3	81.6	9.9	2.9
7	69.0	72.8	75.0	79.9	79.9	10.9	3.8
8	69.4	72.7	75.0	79.8	80.9	10.4	3.3
9	70.3	72.7	75.8	80.3	81.5	10.0	2.4
10	71.2	73.4	77.0	80.8	81.8	9.6	2.2
11	70.7	73.5	77.7	80.6	80.6	9.9	2.8
12	70.9	73.8	78.0	80.9	82.2	10.0	2.9
13	70.6	73.9	78.4	80.7	80.7	10.1	3.3
14	70.7	74.2	78.8	81.4	81.4	10.7	3.5
15	70.9	74.7	79.3	81.9	81.9	11.0	3.8
16	71.8	75.6	79.8	82.5	82.5	10.7	3.8
17	72.8	76.7	80.4	83.2	83.2	10.4	3.9
18	73.6	77.5	80.9	84.1	84.1	10.5	3.9
19	74.2	78.2	81.4	85.0	85.0	10.8	4.0
20	74.4	78.6	81.8	85.7	87.1	11.3	4.2
21	75.5	80.0	82.8	87.2	88.3	11.7	4.5
22	76.7	81.1	83.9	88.4	88.4	11.7	4.4
23	78.1	82.6	85.0	89.1	89.1	11.0	4.5
24	78.9	83.1	85.3	89.5	89.5	10.6	4.2
25	79.2	83.3	85.3	89.9	89.9	10.7	4.1
26	79.1	82.9	84.9	89.8	89.8	10.7	3.8
27	79.0	82.9	84.8	90.4	90.4	11.4	3.9
OH → 28	79.4	83.3	85.0	90.8	90.8	11.4	3.9
29	79.5	83.5	85.3	90.7	90.7	11.2	4.0
30	78.8	82.9	84.8	90.3	90.3	11.5	4.1
31	78.0	82.1	83.8	89.1	89.1	11.1	4.1
32	76.6	80.8	82.1	87.6	87.6	11.0	4.2
33	75.2	79.2	80.1	85.9	85.9	10.7	4.0
34	72.6	76.7	77.7	83.7	83.7	11.1	4.1
35	70.8	75.0	76.1	82.3	82.3	11.5	4.2
36	69.0	73.5	74.7	80.8	80.8	11.8	4.5
37	67.6	72.3	73.9	79.7	79.7	12.1	4.7
38	66.8	71.5	73.4	79.1	80.5	12.3	4.7
39	65.7	70.7	72.5	78.2	78.2	12.5	5.0

TABLE B-II

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 110, 130 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBU-DBA
1	65.7	68.9	70.8	76.9	76.9	11.2	3.2
2	66.5	69.8	71.9	77.6	78.9	11.1	3.3
3	67.5	70.6	72.7	78.1	80.0	10.6	3.1
4	69.1	71.4	73.5	79.0	81.0	9.9	2.3
5	69.6	71.7	74.1	79.4	81.0	9.8	2.1
6	69.2	71.7	74.5	79.2	80.5	10.0	2.5
7	67.9	71.5	74.8	79.2	80.3	11.3	3.7
8	66.4	71.2	74.8	78.9	78.9	12.5	4.8
9	65.7	71.3	75.1	78.6	79.7	12.9	5.6
10	65.4	71.4	75.6	78.5	80.1	13.1	6.0
11	65.1	71.5	76.0	78.5	79.9	13.4	6.4
12	65.1	71.6	76.3	78.6	78.6	13.5	6.5
13	67.7	72.6	76.9	79.5	79.5	11.8	4.9
14	69.7	73.9	77.6	80.5	80.5	10.8	4.2
15	71.0	74.6	78.1	81.2	81.2	10.2	3.6
16	72.2	75.4	78.5	82.2	82.2	10.0	3.2
17	72.8	75.9	78.9	82.8	82.8	10.0	3.1
18	72.8	76.2	79.4	83.1	83.1	10.3	3.4
19	72.5	76.4	79.8	83.3	83.3	10.8	3.9
20	73.2	77.4	80.5	84.1	84.1	10.9	4.2
21	73.9	78.3	81.0	85.2	85.2	11.3	4.4
22	74.6	79.0	81.3	86.3	87.8	11.7	4.4
23	74.7	79.3	81.4	86.7	88.5	12.0	4.6
24	75.0	79.5	81.7	86.9	86.9	11.9	4.5
25	75.7	80.1	82.1	87.0	86.4	11.3	4.4
26	76.1	80.6	82.6	86.9	86.9	10.8	4.5
27	76.6	81.0	83.0	87.5	87.5	10.9	4.4
28	76.6	81.3	83.4	88.1	88.1	11.5	4.7
29	77.3	81.6	83.5	88.6	88.6	11.3	4.3
30	77.6	82.0	84.2	89.1	89.1	11.5	4.4
OH → 31	78.1	82.5	84.8	89.8	89.8	11.7	4.4
32	79.5	82.8	85.4	90.3	90.3	11.8	4.3
33	78.3	82.5	85.0	90.2	90.2	11.9	4.2
34	77.4	81.6	83.8	89.0	89.0	11.6	4.2
35	75.8	80.1	82.0	87.6	87.6	11.8	4.3
36	74.0	78.1	79.7	85.6	85.6	11.6	4.1
37	72.0	76.1	77.7	84.0	84.0	12.0	4.1
38	69.6	74.2	75.5	82.0	82.0	12.4	4.6
39	68.4	73.0	74.5	80.6	80.6	12.2	4.6
40	67.4	72.2	73.6	79.4	79.4	12.0	4.8
41	66.0	71.0	72.8	78.4	79.7	12.4	5.0
42	65.0	70.2	72.1	77.6	77.6	12.6	5.2

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 107, 144 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	54.3	63.2	63.1	.0	.0	-54.2	8.9
3	54.6	63.6	63.8	.0	.0	-54.5	9.0
5	63.3	66.9	67.4	75.7	75.7	12.4	3.6
7	66.3	68.9	69.2	76.7	76.7	10.4	2.6
9	68.6	70.8	71.2	78.2	78.2	9.6	2.2
11	65.3	68.7	69.8	76.5	76.5	11.2	3.4
13	66.2	69.3	70.4	77.1	77.1	10.9	3.1
15	70.4	72.9	73.7	80.2	80.2	9.8	2.5
17	73.3	76.0	76.4	82.8	82.8	9.5	2.7
19	69.9	73.5	74.9	80.7	80.7	10.8	3.6
21	68.7	72.9	75.3	80.9	80.9	12.2	4.2
23	69.9	73.3	76.0	81.3	82.6	11.4	3.4
25	69.6	73.7	76.9	81.4	81.4	11.8	4.1
27	68.6	73.5	77.2	81.1	81.1	12.5	4.9
29	70.2	74.9	77.9	82.0	83.4	11.8	4.7
31	73.7	78.1	80.4	85.2	85.2	11.5	4.4
33	75.5	79.9	81.9	86.2	86.2	10.7	4.4
35	75.4	80.0	81.8	86.6	86.6	11.2	4.6
OK → 37	76.0	80.7	82.2	87.5	87.5	11.5	4.7
39	77.0	81.4	83.1	88.2	88.2	11.2	4.4
41	76.4	81.1	82.6	88.3	88.3	11.9	4.7
43	72.9	77.8	78.7	85.0	85.0	12.1	4.9
45	69.1	73.2	73.8	81.0	81.0	11.9	4.1
47	67.8	72.0	73.0	79.8	79.8	12.0	4.2
49	65.1	69.9	71.2	77.5	78.8	12.4	4.8
51	61.6	67.5	68.8	75.3	75.3	13.7	5.9
53	59.8	65.9	67.4	74.0	74.0	14.2	6.1
55	58.9	65.4	66.3	73.8	73.8	14.9	6.5

TABLE B-V

NOISE LEVEL TIME HISTORY DATA

HUGHES 500 C

OCTOBER 28 1976

EVENT 106, 144 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	63.1	66.6	70.7	73.6	74.7	10.5	3.5
2	65.6	68.4	71.7	75.3	75.3	9.7	2.8
3	67.6	70.4	73.0	76.6	76.6	9.0	2.8
4	69.1	71.8	73.8	77.7	77.7	8.6	2.7
5	69.7	72.5	74.4	78.2	78.2	8.5	2.8
6	69.7	72.4	74.7	78.4	79.5	8.7	2.7
7	69.3	72.3	74.9	78.2	79.4	8.9	3.0
8	69.2	72.8	75.7	79.2	79.2	10.0	3.6
9	69.0	73.1	76.0	79.8	79.8	10.8	4.1
10	68.8	73.1	76.3	79.9	79.9	11.1	4.3
11	69.3	73.5	76.6	80.2	80.2	10.9	4.2
12	70.6	74.5	77.3	80.7	80.7	10.1	3.9
13	71.9	75.6	78.0	81.7	81.7	9.8	3.7
14	73.2	76.8	78.7	83.0	83.0	9.8	3.6
15	73.5	77.2	79.2	83.5	83.5	10.0	3.7
16	73.3	77.0	79.3	83.5	83.5	10.2	3.7
17	71.7	75.8	78.8	82.5	82.5	10.8	4.1
18	70.7	75.0	78.6	81.7	81.7	11.0	4.3
19	70.5	75.3	79.2	81.9	83.1	11.4	4.8
20	71.4	76.3	80.1	82.8	82.8	11.4	4.9
21	72.8	77.5	81.2	84.1	84.1	11.3	4.7
22	74.1	78.9	82.3	85.1	86.4	11.0	4.8
23	75.5	79.9	83.0	86.3	86.3	10.8	4.4
24	76.1	80.4	83.2	87.1	87.1	11.0	4.3
25	77.2	81.2	83.6	88.2	88.2	11.0	4.0
01 → 26	78.0	82.2	84.0	89.5	89.5	11.5	4.2
27	78.8	83.2	84.4	90.6	90.6	11.8	4.4
28	78.6	83.2	84.3	90.1	90.1	11.5	4.6
29	77.9	82.4	83.5	89.7	89.7	11.8	4.5
30	76.7	80.9	82.2	88.5	88.5	11.8	4.2
31	74.8	78.9	79.9	86.4	86.4	11.6	4.1
32	73.0	77.0	77.7	84.2	84.2	11.2	4.0
33	70.6	74.5	75.0	81.9	81.9	11.3	3.9
34	69.3	73.3	74.1	80.4	80.4	11.1	4.0
35	67.0	71.6	73.0	78.1	78.1	11.1	4.6
36	65.6	70.4	72.4	77.2	78.3	11.6	4.8
37	64.3	68.9	71.3	76.2	76.2	11.9	4.6

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 65, 6 DEGREE APPROACH, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-19.5	-15.5	-11.5	-7.5	-3.5	0	.5	4.5	8.5	11.0
17	57.9	57.6	60.8	59.4	55.4	58.4	58.8	57.8	56.5	54.9
18	61.7	61.9	57.6	60.7	61.9	66.9	68.0	65.7	63.1	62.6
19	55.7	55.2	54.7	56.6	55.4	56.2	56.4	57.0	55.9	55.4
20	57.7	59.6	60.3	59.1	59.3	57.9	58.5	62.4	63.2	65.9
21	62.5	64.8	66.3	62.1	60.1	56.4	56.3	58.1	58.2	58.9
22	49.4	51.8	51.6	51.2	52.5	56.2	57.4	52.1	51.5	52.2
23	48.0	49.2	47.4	50.3	61.5	64.8	66.6	64.4	50.9	52.8
24	52.5	49.1	50.7	56.6	64.2	64.1	64.2	65.3	53.6	47.2
25	45.8	48.5	62.5	64.0	62.6	61.7	61.0	69.3	63.4	52.7
26	54.6	51.9	63.6	63.8	61.1	67.0	67.5	65.2	66.2	57.5
27	58.3	57.3	67.0	60.8	66.7	70.0	68.8	71.3	63.5	59.2
28	59.0	57.3	59.3	65.5	69.0	68.1	68.1	69.7	58.8	57.2
29	53.8	49.7	58.2	66.4	69.2	65.2	65.6	66.2	62.5	52.9
30	52.8	50.2	55.3	58.2	60.7	63.2	64.5	62.4	57.5	50.8
31	50.6	47.0	52.9	54.4	56.9	60.9	61.9	59.7	53.6	48.1
32	45.2	45.2	47.3	51.1	54.4	56.9	58.7	57.1	53.3	45.5
33	45.0	45.0	45.0	48.2	51.3	54.8	55.9	52.3	48.1	45.0
34	45.0	45.0	45.0	45.0	47.7	50.5	51.4	48.4	45.0	45.0
35	45.0	45.0	45.0	45.0	45.0	46.2	46.4	45.1	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	62.0	59.9	67.0	69.8	72.2	73.0	72.9	73.5	67.9	61.4
D	67.0	66.5	71.0	72.5	75.1	76.2	76.5	77.0	71.6	67.3
OASPL	70.6	70.8	73.5	73.8	76.5	79.0	79.2	77.8	73.3	70.7
PNL	74.8	74.0	79.3	79.8	82.2	83.3	83.2	84.0	79.5	75.1
PNLT	74.8	75.1	79.3	81.6	83.7	83.3	83.2	84.0	81.0	75.1

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 104, 130 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.5	-8.5	-7.0	-6.5	-4.5	-2.5	-.5	0	1.5	3.5	5.5
17	53.8	53.8	54.5	53.9	55.8	55.0	53.7	52.9	55.0	57.0	54.5
18	55.6	55.6	57.3	56.5	57.2	55.8	56.8	55.2	58.1	59.2	59.6
19	63.4	65.7	66.3	66.4	63.9	59.7	54.3	53.8	54.3	54.7	56.7
20	55.7	56.6	56.1	56.4	55.0	53.6	64.1	65.5	61.3	61.3	57.3
21	65.7	67.7	66.9	66.1	62.4	58.4	64.9	64.6	63.9	56.1	53.5
22	55.4	56.8	53.6	52.6	49.3	59.7	64.4	64.0	63.8	59.0	53.5
23	49.9	48.0	47.5	47.8	58.5	63.9	63.8	63.9	66.2	68.2	60.3
24	54.1	50.7	60.5	61.3	72.5	72.9	61.6	59.4	58.6	59.6	58.4
25	49.2	55.7	61.7	62.1	64.3	60.0	66.0	67.8	68.6	58.9	60.6
26	60.0	66.8	72.8	72.4	71.8	66.4	67.9	66.8	69.0	66.2	54.9
27	55.9	70.2	73.6	70.4	65.2	69.1	64.1	65.1	66.1	63.0	63.5
28	52.2	63.0	62.4	63.1	69.4	65.0	64.5	64.1	64.0	62.9	58.5
29	49.7	61.5	71.0	69.4	63.6	63.9	65.4	65.1	62.2	59.4	56.4
30	46.6	59.6	62.3	60.7	61.9	62.6	63.6	63.1	59.7	56.9	53.1
31	45.2	52.2	60.3	59.3	58.5	61.3	63.2	62.5	57.3	55.8	50.6
32	45.0	48.9	54.8	54.6	55.7	59.1	59.6	59.0	55.3	52.8	47.8
33	45.0	45.6	49.4	49.8	49.7	52.6	54.4	54.1	51.5	48.4	45.2
34	45.0	45.0	45.0	45.0	45.1	48.3	50.6	50.1	47.6	45.3	45.0
35	45.0	45.0	45.0	45.0	45.0	45.0	46.3	46.2	45.0	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	59.4	70.4	75.0	73.8	73.5	72.5	72.1	71.8	71.0	68.2	65.0
D	67.2	73.7	77.7	76.7	76.6	75.7	75.6	75.7	75.3	72.9	69.5
OASPL	71.9	75.8	79.0	78.1	78.4	77.6	78.2	78.7	78.4	75.0	70.1
PNL	75.0	81.4	84.6	83.8	83.8	83.5	82.8	82.4	82.4	80.1	77.3
PNLT	75.0	81.4	87.5	86.2	85.5	83.5	82.8	82.4	82.4	80.1	77.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 105, 130 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.5	-8.5	-5.5	-2.5	0	.5	3.5	6.5	9.5	10.0
17	57.2	57.2	58.6	59.9	60.5	60.0	58.0	60.0	60.1	59.5
18	65.6	64.7	63.0	62.0	61.2	61.1	60.9	58.8	57.6	57.7
19	59.3	61.0	62.8	57.8	54.9	55.2	61.2	58.9	60.9	62.6
20	53.9	55.0	55.2	55.6	66.4	65.9	58.4	61.0	60.6	60.9
21	63.3	64.7	61.4	60.6	65.1	65.8	59.6	59.0	62.6	62.6
22	52.4	51.0	47.7	60.1	65.0	65.2	60.4	51.4	49.4	49.1
23	48.1	47.7	57.3	63.3	64.1	63.1	68.1	56.2	48.0	48.9
24	52.3	56.8	70.4	71.0	58.9	58.0	59.6	59.4	52.0	51.5
25	50.4	59.8	67.2	58.6	68.9	69.6	60.2	62.6	58.6	56.9
26	57.5	65.5	72.1	66.0	67.9	67.5	68.6	55.4	58.9	58.5
27	60.8	64.8	62.1	65.7	65.7	66.1	64.2	59.6	56.7	57.0
28	57.7	58.3	70.3	64.1	64.2	63.9	64.9	61.1	49.8	48.7
29	50.4	63.8	63.0	62.4	64.5	64.3	60.9	54.5	53.0	51.6
30	50.8	56.1	61.3	60.4	63.3	62.9	58.6	52.4	50.6	50.1
31	46.2	52.9	55.4	58.5	62.5	62.3	55.7	50.6	52.1	52.2
32	45.0	47.2	54.6	58.0	58.5	58.3	53.1	47.7	46.3	46.5
33	45.0	45.1	46.4	52.3	53.7	52.8	49.0	45.1	45.0	45.0
34	45.0	45.0	45.0	48.3	50.2	49.8	45.3	45.0	45.0	45.0
35	45.0	45.0	45.0	45.0	46.2	45.7	45.0	45.0	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	61.4	68.7	73.4	70.7	71.9	71.9	69.4	64.3	61.2	60.9
D	67.4	71.4	76.3	74.6	76.1	76.2	74.0	69.0	67.5	67.5
OP SPL	70.9	73.5	78.0	76.8	78.7	78.9	76.0	70.6	69.6	69.7
PNL	75.5	79.0	83.6	82.2	82.9	82.8	81.5	76.6	75.0	74.8
PNLT	75.5	81.2	86.2	82.2	82.9	82.8	81.5	78.1	76.2	76.1

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 106, 144 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.5	-4.0	-2.5	-2.0	-1.0	0	.5	2.0	3.5	4.0
17	54.3	56.1	56.0	58.4	60.4	60.3	58.7	58.2	60.3	58.3	57.8
18	56.9	57.9	59.0	61.7	63.1	64.3	65.2	66.1	69.4	67.7	66.3
19	67.8	70.7	72.5	73.8	73.8	71.1	66.6	64.3	65.6	65.8	65.3
20	54.6	58.1	60.0	62.2	62.1	62.1	62.7	64.3	64.7	63.6	63.1
21	67.2	71.8	71.4	71.7	70.8	68.0	63.8	61.0	56.8	59.5	59.1
22	59.2	63.7	63.9	60.5	58.4	55.2	59.6	60.8	58.9	52.1	52.1
23	54.9	58.7	55.3	54.5	56.8	63.4	69.8	70.7	66.5	58.4	55.4
24	66.3	68.3	63.1	69.9	72.4	73.9	73.9	73.4	69.7	64.5	62.2
25	50.9	52.5	61.5	67.5	69.3	72.1	73.0	72.5	70.0	68.8	66.6
26	55.3	60.9	75.0	78.2	78.5	74.6	68.7	67.6	65.5	65.7	64.7
27	56.0	70.4	77.7	76.3	74.9	67.2	70.1	73.4	71.5	62.6	61.8
28	63.5	71.9	74.4	68.2	67.6	70.2	70.8	70.1	68.9	66.3	63.4
29	62.1	66.7	68.0	70.8	71.1	69.0	70.4	70.1	68.5	63.1	62.6
30	54.0	55.8	69.1	67.7	66.9	67.2	66.4	69.0	65.4	62.0	59.5
31	45.5	57.0	66.3	66.5	67.1	66.1	67.0	66.6	63.9	59.8	58.3
32	41.9	51.4	62.5	65.0	65.6	65.1	66.0	65.5	64.1	57.0	55.0
33	35.8	48.7	55.8	63.4	64.0	61.5	61.0	60.7	56.6	51.9	50.4
34	35.0	36.7	48.9	54.6	55.4	55.6	57.1	57.0	53.3	47.9	45.4
35	35.0	35.0	41.8	47.6	49.0	51.1	53.3	53.0	48.7	42.6	40.3
36	35.0	35.0	35.9	40.6	42.0	44.2	46.9	47.0	42.7	37.3	35.6
37	35.0	35.0	35.0	35.0	35.2	37.5	40.6	41.3	39.2	35.0	35.0
38	35.0	35.0	35.0	35.0	35.0	35.0	35.5	35.8	35.0	35.0	35.0
39	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
40	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	66.1	73.7	79.0	78.5	78.4	76.7	77.3	77.1	75.0	70.7	69.0
D	70.1	76.6	81.7	82.4	82.4	80.7	81.1	81.0	78.7	74.4	72.9
OASPL	74.6	79.2	82.6	83.5	83.8	82.4	83.4	83.9	81.6	76.8	75.1
PNL	76.4	82.8	88.1	89.2	89.6	87.6	87.2	87.5	85.3	81.2	79.4
PNLT	77.9	84.0	88.1	89.2	90.9	87.6	87.2	87.5	86.5	82.3	79.4

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 107, 144 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.5	-6.5	-4.5	-2.5	-.5	0	1.5	3.5	5.5
17	52.4	53.7	55.3	57.3	56.8	56.1	56.1	57.9	57.0
18	54.6	55.1	57.3	60.5	61.5	62.4	66.3	66.1	58.0
19	65.2	66.7	70.0	71.6	66.8	63.9	60.0	58.2	58.7
20	53.4	56.4	59.5	60.7	60.6	60.5	62.5	61.4	61.3
21	64.9	67.9	71.0	70.5	65.7	64.2	58.4	55.9	58.5
22	55.5	59.2	61.8	58.4	56.4	60.3	63.4	56.1	50.2
23	52.7	56.7	55.9	55.6	64.1	65.2	66.8	66.0	52.5
24	64.9	66.7	62.2	71.1	74.0	72.3	69.6	65.3	59.2
25	50.2	50.3	61.8	68.5	70.0	69.0	66.8	68.1	64.1
26	57.5	56.1	73.8	77.8	70.7	67.4	69.8	63.0	62.5
27	58.1	65.5	77.3	74.6	69.1	70.3	71.3	69.6	58.7
28	61.5	67.2	73.4	66.7	69.6	68.5	68.3	66.0	60.8
29	61.0	64.1	67.2	70.2	68.5	69.2	67.4	64.6	58.6
30	52.3	53.1	66.7	64.3	66.4	66.4	67.0	62.0	56.7
31	45.0	52.6	63.3	62.3	65.6	64.8	65.2	59.8	54.6
32	45.0	48.0	57.7	60.4	64.2	64.2	63.1	57.4	51.4
33	45.0	45.0	51.0	56.1	58.3	57.4	58.1	52.7	47.1
34	45.0	45.0	45.0	50.3	54.1	53.5	54.6	48.7	45.2
35	45.0	45.0	45.0	45.4	49.4	49.4	50.2	45.6	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	46.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	65.0	69.9	77.5	77.0	75.9	75.4	75.1	72.0	66.3
D	69.7	73.2	80.3	80.9	79.5	78.8	79.0	75.7	70.6
OASPL	73.3	76.0	81.4	82.4	81.6	81.4	82.3	78.5	71.9
PNL	77.1	80.3	87.6	88.4	86.3	85.4	85.7	83.0	77.9
PNLT	77.1	80.3	87.6	90.0	86.3	85.4	85.7	83.0	77.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 108, 150 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-12.0	-9.5	-7.0	-4.5	-2.0	-.5	0	.5	3.0	4.0
17	56.4	58.4	57.3	58.0	59.1	59.2	61.7	62.1	61.5	60.9	59.0
18	57.8	59.2	60.5	65.0	61.8	63.9	65.9	67.5	69.4	67.1	63.7
19	65.0	65.0	66.4	69.2	77.5	76.1	74.6	74.5	74.6	72.2	70.7
20	59.5	58.8	56.8	58.7	62.1	64.3	69.3	71.0	71.8	64.8	63.4
21	64.7	65.8	65.9	69.3	72.9	72.9	72.5	70.7	67.1	61.6	61.0
22	55.9	56.6	56.4	62.4	65.6	61.8	58.9	57.5	57.3	55.3	55.9
23	55.2	53.8	54.0	58.8	61.0	56.8	64.1	65.8	66.4	54.8	53.3
24	64.5	62.6	64.2	70.0	67.7	69.0	71.9	70.7	70.8	61.2	56.7
25	54.4	51.0	52.1	56.1	55.9	69.6	75.9	76.3	75.9	68.5	62.8
26	67.2	61.5	62.2	62.4	68.7	77.4	75.6	73.9	71.9	68.3	64.1
27	64.7	53.7	54.9	59.3	75.3	74.5	68.8	69.5	70.3	67.5	66.0
28	58.9	53.2	51.9	66.5	74.4	66.9	74.3	74.6	73.6	65.3	58.4
29	54.5	54.3	56.8	68.1	71.8	68.4	68.7	68.4	68.2	65.3	61.6
30	57.9	54.5	57.2	62.8	64.0	67.2	69.9	69.2	68.2	61.2	56.7
31	55.7	49.8	51.0	51.7	65.9	66.3	68.0	67.8	67.1	59.3	55.5
32	48.8	45.0	45.0	47.8	58.9	65.0	66.3	66.2	66.0	56.8	52.0
33	45.0	45.0	45.0	45.0	53.9	62.6	62.0	61.6	60.5	52.6	48.4
34	45.0	45.0	45.0	45.0	46.6	54.9	57.3	57.0	56.3	48.4	45.5
35	45.0	45.0	45.0	45.0	45.0	49.6	53.3	52.7	51.6	45.3	45.0
36	45.0	45.0	45.0	45.0	45.0	45.6	47.9	47.7	47.4	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	67.7	62.3	63.4	71.9	77.6	77.5	78.5	78.4	77.9	71.5	67.2
D	71.4	68.9	69.5	74.9	80.5	81.6	82.5	82.3	81.6	75.4	72.0
OASPL	73.6	72.1	73.3	77.6	82.9	83.3	84.8	85.0	84.8	78.4	75.3
PNL	80.0	76.6	77.1	81.7	87.4	89.2	89.5	89.2	88.7	82.7	80.0
PNLT	80.0	76.6	78.5	83.1	88.9	89.2	91.4	91.0	90.1	82.7	81.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 109, 150 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.5	-9.5	-7.5	-5.5	-3.5	-1.5	0	.5	2.5	4.5
17	54.7	53.6	55.6	56.5	58.1	59.4	59.4	59.0	60.5	59.4
18	56.7	58.5	57.6	57.4	61.2	64.2	63.2	65.0	68.3	61.5
19	60.2	63.5	67.0	69.3	73.1	71.7	63.1	60.6	59.4	59.3
20	54.2	54.0	56.1	58.0	61.2	62.9	66.7	67.6	65.2	61.9
21	62.8	64.8	68.4	71.3	72.5	71.0	65.5	62.7	58.2	58.5
22	52.0	58.1	61.4	62.7	62.9	57.2	59.6	60.8	55.6	51.7
23	52.7	55.2	57.6	57.8	55.1	59.8	67.2	67.4	63.1	53.9
24	67.8	70.0	69.0	65.2	61.8	72.5	71.1	70.8	67.5	59.6
25	56.8	56.4	53.7	54.3	63.2	70.3	73.8	74.1	69.4	66.5
26	65.8	66.4	62.2	67.5	76.0	75.5	68.3	66.8	64.9	65.1
27	56.4	59.6	60.6	73.7	78.0	67.0	71.4	72.7	70.0	61.9
28	56.0	63.2	67.7	72.6	75.0	67.9	71.6	71.0	68.3	61.4
29	60.3	68.3	68.3	69.7	69.2	65.6	69.9	70.1	66.7	61.3
30	57.4	65.4	61.9	62.9	71.0	64.9	66.6	67.0	62.4	58.2
31	51.5	57.9	51.9	64.4	64.7	64.1	66.0	65.6	61.0	56.4
32	45.2	48.2	48.7	55.1	60.3	62.7	64.6	64.6	60.2	53.9
33	45.0	45.0	46.0	51.2	55.1	59.7	59.3	58.9	54.8	49.2
34	45.0	45.0	45.0	45.3	47.4	53.0	55.5	55.5	50.6	46.5
35	45.0	45.0	45.0	45.0	45.0	47.7	50.9	50.9	46.6	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	46.0	46.4	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	66.2	71.9	71.8	75.9	79.0	75.4	76.8	76.8	73.4	68.7
D	71.2	75.1	74.4	79.1	82.3	79.3	80.6	80.6	77.2	72.4
OASPL	72.6	75.9	76.8	80.0	83.6	81.8	83.2	83.6	80.0	74.2
PNL	78.8	81.4	81.5	85.5	88.9	87.5	87.0	87.1	84.0	79.6
PNLT	79.9	82.7	83.0	87.2	90.2	87.5	87.0	87.1	84.0	79.6

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 110, 130 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-15.0	-12.0	-9.0	-6.0	-5.5	-3.0	0	3.0	6.0
17	57.4	55.7	54.5	55.1	55.9	57.0	59.2	59.1	56.6
18	55.8	56.7	56.7	59.6	59.7	60.8	65.0	65.1	57.3
19	58.7	64.5	66.1	69.4	70.0	70.1	63.0	60.7	58.8
20	55.0	55.1	55.3	58.7	59.4	61.8	64.7	62.6	59.5
21	59.0	63.5	65.3	69.7	69.7	68.5	61.6	59.4	57.8
22	49.7	55.2	56.3	61.9	62.3	59.3	57.7	54.4	53.8
23	49.1	52.6	53.2	56.6	56.6	54.3	70.3	63.2	53.2
24	62.6	66.6	65.7	65.9	65.1	65.5	72.9	64.3	53.1
25	52.1	54.2	49.8	53.3	57.1	66.5	71.9	68.8	61.3
26	61.7	65.1	54.0	64.3	68.6	74.8	67.0	64.8	61.2
27	55.0	56.2	54.1	73.6	75.5	73.1	70.6	64.4	61.1
28	51.7	60.4	60.0	72.5	74.0	64.8	70.4	67.1	54.0
29	56.4	65.3	59.7	70.5	71.0	66.0	69.3	61.8	56.5
30	53.0	61.7	52.8	61.2	64.5	61.5	66.0	61.3	53.7
31	47.7	54.9	46.1	64.6	66.0	61.6	64.9	60.1	51.2
32	45.0	46.1	45.3	57.5	58.7	62.8	63.3	57.5	49.0
33	45.0	45.0	45.0	50.1	52.0	54.7	58.3	53.0	46.0
34	45.0	45.0	45.0	45.0	45.6	50.2	55.1	49.1	45.0
35	45.0	45.0	45.0	45.0	45.0	46.0	50.9	46.0	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	46.1	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	61.9	69.8	63.7	75.4	76.7	74.9	75.9	71.1	63.9
D	68.0	72.1	69.8	77.9	79.4	78.8	79.9	75.2	68.8
OASPL	69.3	73.7	73.2	79.4	80.7	80.5	82.3	77.3	69.7
PNL	75.9	79.3	77.2	85.2	86.7	86.3	86.1	82.0	76.5
PNLT	77.3	80.6	78.3	87.0	88.2	87.8	86.1	83.3	76.5

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 65, 6 DEGREE APPROACH, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-34.5	-28.0	-21.5	-15.0	-8.5	-5.0	-2.0	0	4.5	11.0	13.0
17	56.6	63.0	58.9	61.2	57.2	56.0	57.1	58.2	59.5	56.2	57.9
18	62.3	61.3	61.1	63.7	63.6	64.6	67.0	64.1	63.7	61.4	60.7
19	57.4	57.4	56.7	60.4	64.0	64.4	59.1	54.1	57.1	55.8	56.6
20	60.6	57.4	58.1	61.6	59.1	62.1	57.2	55.0	63.9	65.2	63.4
21	57.3	58.8	63.2	66.0	64.4	61.1	55.1	56.9	58.4	59.8	58.9
22	49.5	50.6	51.0	50.6	50.5	49.9	54.2	57.9	53.3	54.0	53.0
23	47.8	49.6	48.1	49.7	50.7	62.8	62.0	68.4	63.4	62.2	60.5
24	49.3	49.7	49.5	52.0	56.7	70.5	64.1	63.8	63.1	52.5	54.3
25	46.0	46.8	51.8	54.2	64.6	66.7	59.4	58.8	67.5	55.1	58.5
26	47.1	48.0	52.6	54.6	63.1	63.1	63.9	68.8	63.4	53.8	56.1
27	52.2	51.5	54.6	57.9	62.0	61.7	67.4	66.8	65.6	57.0	50.2
28	52.1	51.8	52.7	54.6	58.5	66.1	61.3	65.6	66.3	57.6	48.2
29	45.6	45.1	45.5	50.0	61.5	59.8	62.6	62.7	61.9	57.4	52.1
30	45.0	45.0	45.8	52.5	54.9	56.7	61.1	61.5	60.1	52.8	51.1
31	45.0	45.0	45.0	46.6	55.2	55.9	58.4	60.7	57.1	52.8	47.3
32	45.0	45.0	45.0	45.1	50.1	53.8	55.9	57.2	55.4	50.0	47.7
33	45.0	45.0	45.0	45.0	45.3	49.9	51.8	54.0	52.4	47.7	45.6
34	45.0	45.0	45.0	45.0	45.0	46.1	49.0	50.2	48.7	45.0	45.0
35	45.0	45.0	45.0	45.0	45.0	45.0	45.7	46.8	45.1	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	55.0	54.3	56.7	60.3	66.8	70.1	69.9	71.5	70.3	63.3	60.0
D	64.3	64.4	65.0	67.0	70.9	74.0	73.7	75.5	74.3	68.3	67.1
OASPL	71.7	75.6	72.5	76.8	75.1	77.7	75.4	76.9	77.1	72.2	73.7
PNL	72.3	72.3	73.0	74.7	78.3	81.6	81.1	82.5	81.2	75.7	74.3
PNLT	72.3	73.5	73.0	76.0	79.9	83.4	81.1	82.5	81.2	75.7	74.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 104, 130 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-13.0	-10.0	-7.0	-4.0	-1.0	0	2.0	5.0	8.0
17	52.8	51.7	52.9	54.1	52.4	53.3	52.9	54.6	52.4
18	55.6	56.3	57.7	59.9	62.6	63.1	56.9	57.9	55.3
19	63.4	65.5	69.5	69.2	61.3	56.8	52.2	53.1	58.3
20	53.8	57.5	56.6	56.5	54.9	59.6	59.3	56.5	58.0
21	64.3	68.7	65.6	61.4	60.6	64.0	64.2	51.2	53.6
22	56.5	56.9	57.1	49.6	62.1	64.0	62.2	54.1	46.2
23	50.2	49.2	47.9	58.0	63.2	62.7	69.5	59.1	47.6
24	54.9	49.6	61.4	72.3	70.1	59.9	56.7	57.9	55.3
25	46.1	51.8	57.0	62.8	58.2	64.3	65.7	59.0	59.4
26	54.9	62.9	68.1	71.3	66.2	67.3	67.5	59.7	54.1
27	55.6	62.4	66.6	68.4	62.3	64.3	66.0	63.3	52.6
28	57.9	60.9	57.7	69.7	63.8	64.5	65.1	58.9	56.0
29	55.7	55.0	67.0	63.5	63.6	64.2	65.0	58.2	48.6
30	48.1	56.1	58.5	60.9	63.0	64.3	62.9	56.2	48.2
31	46.4	47.1	54.5	58.1	61.3	61.6	59.6	54.2	47.1
32	45.0	45.5	47.7	54.3	58.5	59.5	53.5	51.3	45.7
33	45.0	45.0	45.0	48.2	53.6	55.1	53.5	47.6	45.0
34	45.0	45.0	45.0	45.0	50.6	51.9	50.2	45.2	45.0
35	45.0	45.0	45.0	45.0	46.1	46.6	45.7	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	60.7	65.0	70.3	73.2	71.0	71.5	72.1	65.7	59.7
D	66.8	69.9	73.6	77.3	74.7	75.1	75.8	69.5	65.9
OASPL	70.7	73.8	76.0	78.0	76.0	76.5	76.3	71.4	67.3
PNL	74.5	77.4	80.8	83.7	82.2	82.4	82.4	77.8	73.9
PNLT	74.5	79.1	83.8	84.9	82.2	82.4	82.4	77.8	75.6

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 105, 130 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-12.5	-10.0	-7.5	-5.0	-2.5	0	2.5	5.0	5.5
17	59.0	55.6	63.0	63.1	61.2	59.8	61.8	59.7	59.2
18	63.9	62.8	64.8	65.4	63.1	62.9	60.8	59.3	58.7
19	64.6	66.5	67.8	67.0	63.3	56.7	56.9	59.2	59.5
20	59.1	60.8	59.3	57.3	53.8	62.8	57.1	59.1	60.0
21	67.6	68.7	64.8	61.9	60.3	65.1	62.9	53.5	52.9
22	58.0	55.5	52.0	50.3	61.7	64.9	62.0	52.0	49.0
23	51.2	50.9	50.0	58.5	64.7	66.9	69.6	56.4	53.0
24	58.6	53.2	61.9	70.5	73.6	59.0	57.0	58.6	57.2
25	52.0	50.1	62.7	65.4	58.1	68.9	64.3	59.3	59.2
26	58.9	67.2	68.3	70.4	66.1	67.2	67.6	56.1	53.8
27	60.4	66.7	66.7	70.7	69.0	65.5	63.8	64.0	63.0
28	59.4	63.6	64.7	73.8	64.6	64.4	65.0	56.0	55.7
29	53.5	60.4	66.7	68.8	63.7	64.6	64.6	55.7	54.0
30	53.7	59.1	58.5	63.7	61.5	63.4	61.7	53.8	50.8
31	50.9	49.2	53.6	60.1	59.4	61.1	59.5	51.6	49.9
32	45.5	45.0	50.9	55.6	57.4	57.6	56.6	48.8	47.0
33	45.0	45.0	45.7	48.9	51.1	53.8	52.5	45.9	45.2
34	45.0	45.0	45.0	45.0	47.8	50.8	48.9	45.0	45.0
35	45.0	45.0	45.0	45.0	45.2	46.4	45.2	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	43.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	63.5	69.2	71.5	75.6	72.6	71.9	70.9	64.1	62.9
D	69.1	72.7	74.0	78.2	76.0	75.8	74.6	68.8	67.8
OASPL	73.2	75.3	76.2	79.2	77.1	77.6	76.4	71.2	70.3
PNL	76.6	80.2	81.4	85.4	83.7	82.7	82.0	77.4	76.5
PNLT	76.6	80.2	83.1	86.8	83.7	82.7	82.0	77.4	76.5

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-III

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 106, 144 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-5.5	-4.0	-2.5	-2.0	-1.0	0	.5	2.0	3.5	5.0
17	59.1	56.1	56.1	56.6	59.1	61.2	61.1	61.9	56.1	55.6
18	59.3	59.0	61.6	62.8	64.3	65.7	68.4	67.8	62.3	60.0
19	70.5	70.2	73.1	74.9	74.2	69.4	66.2	59.4	60.5	61.0
20	56.5	59.2	62.8	63.2	62.6	61.0	60.3	63.7	66.0	65.0
21	68.6	73.3	72.7	71.9	70.2	66.2	62.0	56.3	59.3	61.3
22	63.4	64.1	61.1	61.4	57.1	56.6	59.1	59.1	52.1	53.4
23	57.3	55.6	53.7	53.4	58.4	64.8	65.9	71.6	62.5	50.8
24	57.2	62.5	59.7	66.2	72.2	73.2	72.4	70.1	65.1	57.6
25	48.5	58.4	65.7	68.0	68.8	69.4	70.2	70.3	69.5	64.5
26	62.0	73.0	78.1	79.6	77.2	68.6	67.2	67.5	68.7	66.0
27	67.7	77.3	77.7	77.7	72.2	69.2	72.2	75.3	68.0	66.1
28	69.3	75.6	69.6	68.5	67.7	70.9	71.4	70.7	69.2	60.6
29	66.2	69.4	70.7	71.7	68.7	69.1	70.4	70.2	64.8	63.3
30	57.2	68.8	68.6	68.0	67.0	67.3	68.1	68.7	62.6	58.2
31	53.2	64.9	63.8	66.0	65.4	65.7	67.2	66.9	63.3	58.1
32	45.6	58.0	60.9	63.5	64.1	65.6	66.0	65.8	61.0	55.8
33	40.7	51.0	58.5	61.1	61.8	61.6	61.7	60.9	56.1	50.8
34	35.0	44.2	51.0	54.6	55.6	56.1	57.8	56.7	51.4	45.5
35	35.0	37.6	45.3	48.3	50.0	52.3	53.8	52.7	47.3	40.4
36	35.0	35.0	38.5	41.7	43.5	45.7	47.0	47.1	41.2	35.5
37	35.0	35.0	35.0	35.4	36.4	38.7	40.4	41.6	37.6	35.0
38	35.0	35.0	35.0	35.0	35.0	35.0	35.4	35.6	35.0	35.0
39	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
40	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	71.1	78.7	78.5	79.0	76.8	76.3	77.1	77.4	73.2	69.0
D	73.8	81.4	81.9	82.6	80.7	80.0	80.8	80.9	76.6	72.8
OASPL	77.1	82.4	83.0	83.8	81.7	80.3	81.0	81.5	78.1	74.4
PNL	80.4	87.4	88.5	89.9	88.5	86.3	86.9	86.0	83.3	79.5
PNLT	80.4	87.4	88.5	91.0	88.5	86.3	86.9	88.0	83.3	80.8

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 107, 144 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-5.0	-4.0	-3.0	-2.0	-1.0	0	1.0	2.0	5.0
17	55.0	54.8	57.2	56.3	57.9	57.9	57.0	57.5	56.0
18	55.3	57.3	59.3	62.0	63.4	64.6	66.5	64.2	57.7
19	68.9	69.3	71.9	73.0	71.6	67.3	61.0	58.9	61.4
20	58.6	61.5	60.6	60.6	60.2	57.5	56.4	60.7	65.4
21	71.1	72.9	70.5	68.3	66.2	60.5	58.2	59.3	58.7
22	61.4	59.6	59.6	57.2	53.0	60.0	63.0	63.2	51.5
23	51.7	52.9	51.0	54.8	61.0	64.7	71.4	75.8	57.6
24	57.5	55.5	60.8	69.9	74.1	72.8	69.8	68.2	62.3
25	52.1	60.9	65.6	68.9	68.2	67.3	65.7	63.4	66.9
26	63.3	72.8	77.1	78.0	73.5	65.8	69.9	71.6	65.1
27	67.8	75.8	76.8	72.2	65.1	69.4	71.3	70.6	34.1
28	65.4	69.3	65.8	67.4	69.0	69.3	69.2	68.2	65.2
29	58.1	66.0	72.3	71.2	66.1	69.0	68.8	67.1	60.9
30	58.5	65.0	65.2	62.3	64.5	67.3	67.9	66.2	60.4
31	53.6	57.4	62.0	59.7	63.1	65.1	65.5	64.4	57.1
32	47.8	53.6	56.1	57.9	62.0	65.0	63.9	62.8	55.6
33	45.0	48.5	50.5	53.1	58.1	59.6	59.7	57.7	51.4
34	45.0	45.0	45.7	49.5	52.9	55.7	55.7	53.4	47.5
35	45.0	45.0	45.0	45.3	47.9	50.8	51.6	49.6	45.0
36	45.0	45.0	45.0	45.0	45.0	45.9	46.9	45.2	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	68.9	75.2	77.4	76.8	74.7	75.4	75.8	75.4	69.3
D	72.9	78.4	80.4	80.2	78.7	79.1	79.6	79.7	73.8
OASPL	76.6	80.3	81.7	81.2	79.8	79.6	80.7	80.9	75.4
PNL	80.6	86.0	87.5	88.1	86.3	85.7	86.1	86.3	80.6
PNLT	80.6	86.0	89.8	90.2	87.4	85.7	86.1	86.3	80.6

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 108, 150 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.0	-5.5	-4.0	-2.5	-1.0	0	.5	2.0	3.5	4.5
17	57.2	56.9	57.6	56.6	58.4	62.5	62.8	60.5	57.5	57.3
18	57.2	59.0	57.5	60.0	64.5	67.3	69.4	65.4	61.7	57.1
19	69.9	70.8	73.2	74.4	73.4	68.0	64.8	64.4	63.3	64.1
20	56.8	57.1	60.4	64.6	63.7	63.6	65.1	69.8	69.2	64.6
21	66.6	65.8	72.5	74.3	70.2	63.3	59.2	60.1	55.5	61.3
22	57.0	61.1	65.5	63.8	59.9	56.8	57.5	56.3	56.2	55.8
23	55.3	58.5	59.3	55.7	59.5	66.1	69.9	71.7	57.0	54.2
24	63.8	58.8	62.9	58.5	72.6	72.2	71.2	68.3	62.9	56.2
25	49.9	49.7	58.7	67.5	70.6	73.3	73.6	71.6	69.2	63.2
26	56.4	62.5	73.5	79.6	76.7	70.3	69.1	69.9	70.6	65.7
27	63.3	68.9	78.2	80.8	71.6	71.1	73.7	71.1	67.7	67.8
28	64.1	70.4	77.8	76.7	70.5	74.5	74.0	72.0	66.2	60.2
29	65.0	67.1	72.8	72.4	69.0	70.6	70.8	67.9	65.8	61.5
30	59.0	59.6	69.0	72.6	68.2	69.4	68.0	65.2	61.6	58.9
31	49.7	53.0	69.8	68.1	66.0	67.8	67.7	64.4	61.1	57.1
32	46.0	48.8	63.1	65.3	64.9	66.4	66.2	64.2	60.0	54.8
33	45.0	45.5	58.4	60.8	62.4	62.3	62.0	57.8	54.6	50.4
34	45.0	45.0	51.6	54.1	56.4	57.1	57.3	54.8	51.3	46.6
35	45.0	45.0	46.1	49.5	52.8	54.2	54.4	51.3	46.4	45.0
36	45.0	45.0	45.0	45.9	47.5	48.3	48.6	46.8	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	68.9	72.4	80.2	81.9	77.4	78.3	78.3	75.8	73.1	69.3
D	71.8	75.2	83.0	84.8	81.3	81.6	81.8	79.9	77.0	73.2
OASPL	76.3	78.1	83.7	85.5	81.8	82.3	82.6	81.0	78.3	75.0
PNL	79.2	82.2	89.6	91.6	89.2	88.5	88.4	86.6	84.1	81.0
PNLT	80.3	82.2	90.8	91.6	89.2	89.7	88.4	86.6	84.1	81.0

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE 8-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 109, 150 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.5	-5.0	-3.5	-2.0	-1.5	0	1.0	2.5	4.0	4.5
17	56.8	57.5	57.0	55.6	59.8	60.9	60.1	59.2	57.8	57.9
18	59.9	60.0	59.9	62.9	64.3	66.5	69.3	64.1	62.4	61.3
19	68.1	67.9	72.0	73.3	69.4	67.8	63.6	61.3	62.3	62.9
20	56.4	57.8	62.1	61.6	60.8	59.7	62.1	68.2	68.1	67.2
21	67.8	70.7	72.6	69.8	63.7	60.0	57.4	57.1	60.0	60.9
22	61.0	60.9	61.0	58.5	55.9	60.2	64.3	61.5	52.8	52.4
23	55.4	52.2	55.4	54.9	63.7	66.7	74.0	74.1	61.4	55.0
24	58.4	58.5	53.5	71.5	74.6	73.5	71.0	68.8	65.5	63.4
25	48.0	52.9	64.6	70.0	69.7	69.7	69.3	69.4	69.3	67.7
26	58.6	66.4	77.8	80.6	72.8	67.5	69.7	68.0	67.9	67.6
27	67.7	74.8	79.4	76.8	67.2	70.5	73.7	73.0	64.9	64.7
28	69.4	74.6	73.4	68.2	70.4	69.8	70.0	69.1	67.2	66.5
29	65.7	68.8	72.4	73.9	68.2	69.3	71.2	70.0	62.8	62.7
30	54.5	66.6	72.1	65.9	66.6	67.2	68.7	66.2	62.3	61.9
31	55.3	63.3	66.0	64.7	65.5	65.8	67.5	65.2	59.3	53.0
32	49.3	54.7	64.3	62.1	64.4	65.2	65.9	64.2	58.4	57.0
33	46.8	48.4	57.8	60.3	61.0	60.8	60.7	57.9	53.1	52.5
34	45.0	45.0	51.5	54.5	56.2	56.6	57.1	53.9	49.6	48.9
35	45.0	45.0	46.4	49.6	52.7	53.0	52.7	50.5	45.1	45.1
36	45.0	45.0	45.0	45.6	47.3	47.7	47.9	46.2	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	71.0	76.5	80.7	79.8	75.2	76.5	77.9	75.9	71.9	71.0
D	73.9	79.4	83.3	83.4	80.2	80.2	81.7	79.6	75.8	74.9
OASPL	77.0	80.4	83.6	83.9	80.6	81.0	82.5	81.2	77.7	76.6
PNL	81.4	85.7	90.0	90.7	87.0	86.6	88.0	86.9	82.7	82.0
PNLT	82.5	86.8	90.0	93.0	87.0	86.6	88.0	86.9	84.0	82.0

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 110: 130 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-9.5	-7.5	-5.5	-3.5	-1.5	0	.5	2.5	4.5	7.0
17	54.4	53.5	54.5	56.8	58.1	60.4	59.4	58.3	54.1	55.2
18	56.7	56.8	57.7	60.2	63.6	67.7	68.8	60.0	58.4	53.9
19	66.6	68.3	70.0	71.3	71.5	64.8	62.7	58.8	59.2	58.5
20	56.2	57.6	59.2	63.3	64.5	60.7	61.0	63.9	65.5	63.1
21	65.4	68.7	71.3	71.8	70.2	61.9	58.0	57.0	61.5	60.1
22	55.1	59.5	61.9	58.7	55.1	55.6	58.0	55.5	51.4	55.4
23	54.0	56.7	53.8	52.4	60.5	65.0	65.3	67.7	52.8	58.4
24	60.8	59.3	61.0	56.6	73.8	72.0	70.3	66.8	58.8	50.4
25	48.1	49.8	52.6	65.9	68.9	69.0	70.1	70.9	65.5	54.6
26	57.5	60.1	64.3	75.7	73.7	65.7	65.5	65.3	68.6	59.4
27	59.5	69.2	72.3	76.5	68.5	69.6	71.4	69.7	64.9	63.9
28	63.2	70.7	73.4	69.6	67.0	71.1	71.4	68.8	63.5	61.2
29	60.7	68.5	68.9	69.9	65.7	69.1	71.0	66.7	63.3	54.1
30	52.2	56.4	62.5	66.6	64.5	66.2	66.4	63.8	59.4	56.6
31	45.4	52.4	61.0	60.8	64.1	65.6	66.4	64.0	58.9	54.1
32	45.0	47.7	51.9	56.8	63.5	65.2	64.4	60.9	57.1	50.7
33	45.0	45.9	45.5	51.4	57.4	59.1	60.0	57.2	51.8	46.1
34	45.0	45.0	45.0	47.1	52.9	55.5	55.8	52.4	48.3	45.0
35	45.0	45.0	45.0	45.4	48.6	51.7	52.4	49.1	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	46.5	46.8	45.2	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	65.3	72.5	75.3	76.9	75.2	75.5	76.1	74.1	70.7	65.5
D	69.6	75.2	77.6	80.3	79.1	79.2	79.7	77.8	73.9	69.6
OASPL	73.7	77.2	79.4	81.4	80.2	79.9	80.4	78.5	75.5	71.5
PNL	77.5	82.3	84.6	87.2	86.7	86.0	86.3	84.4	81.7	77.9
PNLT	78.5	83.4	84.6	87.2	86.7	86.0	86.3	84.4	81.7	77.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 56, 3 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-9.0	-7.0	-5.0	-3.0	-1.0	-.5	0	1.0	3.0	5.0	7.0
17	64.0	63.7	66.8	63.9	67.5	67.5	65.4	62.1	67.3	65.9	62.7
18	62.0	63.4	66.5	66.5	65.8	64.4	63.3	63.0	69.1	66.7	63.7
19	60.5	63.6	66.5	66.3	61.6	61.2	59.6	61.8	62.4	64.5	64.7
20	62.3	64.2	67.7	60.2	74.5	76.6	77.0	76.7	65.7	66.4	66.9
21	66.2	67.1	67.5	62.1	73.0	75.0	75.0	75.7	67.5	59.6	62.7
22	53.3	53.8	60.2	65.6	69.9	70.2	71.0	71.5	68.2	62.9	58.0
23	52.2	58.0	65.3	72.1	73.5	71.5	67.8	68.4	75.4	70.3	57.3
24	55.9	64.9	70.9	77.2	71.7	68.0	65.3	66.9	65.6	64.2	59.1
25	63.5	70.1	68.0	64.4	78.0	78.2	77.9	77.5	71.6	67.8	63.9
26	63.9	68.6	64.2	69.1	73.1	74.5	75.5	75.0	71.8	62.5	63.5
27	64.4	66.6	62.2	69.1	70.6	70.9	70.6	70.1	70.5	67.8	54.4
28	57.7	61.1	64.4	65.8	70.8	71.2	70.8	70.3	68.1	64.2	55.5
29	56.8	60.9	58.4	63.4	66.9	67.6	68.1	68.5	66.8	61.6	53.7
30	55.2	57.8	56.4	61.3	64.8	65.7	66.1	66.6	63.7	56.7	50.8
31	54.2	58.1	55.5	58.6	62.7	64.3	65.0	64.8	60.8	53.8	48.4
32	46.6	51.2	52.0	56.6	61.7	62.9	63.1	63.3	58.5	51.4	47.4
33	45.0	48.5	50.5	54.5	59.2	60.0	59.9	60.2	55.5	48.3	45.5
34	45.0	45.2	48.7	53.0	58.6	58.9	58.0	57.8	51.7	45.9	45.0
35	45.0	45.0	45.6	49.6	56.1	56.7	55.8	55.0	48.3	45.0	45.0
36	45.0	45.0	45.0	47.1	51.8	52.3	51.6	51.1	45.6	45.0	45.0
37	45.0	45.0	45.0	45.2	47.7	48.6	49.0	48.2	45.3	45.0	45.0
38	45.0	45.0	45.0	45.0	45.3	45.5	45.4	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	45.0	45.1	45.0
A	66.4	70.7	69.6	74.2	77.3	77.8	77.7	77.7	75.0	70.4	63.8
D	71.0	75.1	74.9	78.9	82.2	82.4	82.2	82.3	79.4	74.9	70.4
OASPL	77.4	79.4	80.6	82.6	86.1	86.2	85.7	85.2	82.6	79.8	77.1
PNL	78.6	82.0	82.5	86.6	89.8	90.1	89.8	89.7	86.4	82.0	77.9
PNLT	78.6	83.2	83.9	86.6	89.8	90.1	89.8	89.7	86.4	82.0	77.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 58, 69 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-12.0	-9.5	-7.0	-4.5	-2.0	0	.5	3.0	5.5
17	56.7	59.2	58.0	59.6	62.2	59.7	58.8	59.7	61.2	59.6
18	57.5	58.2	59.0	61.8	62.9	65.5	59.7	58.3	64.0	65.3
19	62.8	61.8	62.5	63.2	64.0	60.1	57.8	57.8	58.3	58.5
20	60.5	60.5	61.0	62.8	60.3	67.9	75.6	75.5	66.3	61.2
21	66.5	66.1	67.1	67.8	60.8	68.5	72.1	71.5	65.8	56.2
22	50.8	53.7	54.7	52.0	58.8	64.3	66.8	66.8	64.3	58.3
23	51.8	52.6	51.4	59.4	65.5	71.0	64.2	64.1	70.7	66.5
24	60.5	60.9	53.9	67.4	73.1	72.3	63.6	63.6	61.0	59.4
25	46.8	55.7	64.6	68.4	61.1	74.6	76.3	76.0	72.8	59.0
26	48.8	59.8	64.4	68.0	60.2	67.5	73.4	73.3	67.0	58.3
27	56.7	69.3	68.5	65.8	67.4	66.1	69.4	68.7	67.8	60.9
28	58.7	68.3	58.5	70.6	60.3	65.8	68.4	68.1	64.3	56.7
29	54.7	58.9	58.6	68.2	59.2	61.8	66.8	66.8	62.3	53.2
30	48.9	55.9	56.7	65.4	56.3	59.7	63.3	63.2	60.4	50.5
31	45.1	52.7	52.4	62.7	53.5	57.7	62.3	62.4	58.4	48.4
32	45.0	47.2	47.4	56.1	54.6	55.5	60.8	61.3	56.4	46.9
33	45.0	45.0	45.6	51.8	49.0	53.7	57.7	58.0	53.5	45.2
34	45.0	45.0	45.0	47.4	47.1	52.6	55.5	55.1	49.9	45.0
35	45.0	45.0	45.0	45.0	45.0	49.8	53.2	52.6	45.9	45.0
36	45.0	45.0	45.0	45.0	45.0	46.3	48.4	47.7	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.5	45.7	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	61.5	69.8	68.2	74.1	69.5	74.0	76.0	75.8	72.3	63.8
D	36.5	72.4	71.9	77.2	74.6	78.7	80.7	80.5	77.0	68.9
OASPL	72.2	75.1	76.0	79.4	78.4	81.4	82.9	82.6	79.2	73.6
PNL	75.0	80.8	80.4	84.1	82.5	85.8	87.8	87.6	84.3	77.4
PNLT	76.3	82.4	80.4	85.3	83.7	85.8	87.8	87.6	84.3	77.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 50, 69 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-15.5	-12.5	-9.5	-6.5	-3.5	-.5	0	2.5	5.5
17	64.5	63.2	62.7	64.9	64.3	66.2	67.6	64.3	64.1
18	63.1	60.4	61.8	63.3	66.8	62.6	63.8	64.2	64.9
19	63.1	63.1	63.5	65.3	65.2	59.8	61.4	57.4	58.8
20	63.3	62.8	62.6	63.6	62.1	75.2	75.4	68.2	63.6
21	65.7	66.5	68.0	65.9	64.3	73.3	73.3	67.3	57.8
22	57.7	56.7	56.8	54.6	62.7	67.7	66.4	64.9	56.6
23	58.0	54.8	53.5	61.2	68.6	64.0	63.6	71.2	64.6
24	63.4	60.0	57.3	69.5	74.4	62.8	63.2	61.2	59.4
25	54.3	54.6	67.2	67.3	63.4	75.8	76.1	72.9	61.6
26	54.1	56.4	67.3	64.2	63.7	73.0	73.6	64.9	56.5
27	61.0	62.5	69.3	61.2	64.4	68.9	68.5	66.6	62.4
28	58.3	61.2	58.8	65.6	62.2	67.6	67.7	61.8	56.9
29	51.8	52.4	59.8	57.9	59.4	65.7	65.9	61.3	53.9
30	45.5	51.3	55.3	59.9	57.3	62.5	62.8	58.9	50.8
31	45.4	47.0	51.1	54.6	54.5	61.7	62.2	56.9	49.1
32	45.0	45.0	46.4	48.9	53.1	60.7	61.2	55.9	47.8
33	45.0	45.0	45.2	47.0	51.8	57.2	57.7	53.6	45.5
34	45.0	45.0	45.0	45.5	50.4	55.5	55.4	50.0	45.0
35	45.0	45.0	45.0	45.0	47.9	52.6	52.1	45.8	45.0
36	45.0	45.0	45.0	45.0	45.7	49.3	49.2	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	47.5	47.4	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	62.5	63.8	70.3	69.3	70.2	75.7	75.9	71.5	64.1
D	68.5	68.5	74.1	74.1	75.9	80.3	80.5	76.6	69.3
OASPL	75.9	75.9	77.4	78.8	79.9	83.1	83.4	79.4	74.3
PNL	76.6	77.2	81.3	81.2	84.0	87.5	87.7	84.1	77.5
PNLT	76.6	78.4	81.3	83.2	84.0	87.5	87.7	84.1	77.5

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE 8-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 60, 110 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-13.0	-10.5	-8.0	-5.5	-3.0	-.5	0	2.0	4.5	5.0
17	64.6	63.6	62.4	63.4	62.3	66.2	65.4	65.7	67.6	67.2
18	60.4	60.7	60.3	62.8	62.3	63.8	61.9	66.4	65.1	65.1
19	64.1	65.9	66.5	67.6	64.6	61.3	60.3	61.9	61.5	62.3
20	59.8	60.0	59.9	60.8	59.4	76.0	75.0	62.3	61.6	62.5
21	64.0	67.1	67.5	68.9	63.9	74.5	73.5	64.0	58.9	59.3
22	56.6	56.5	54.9	56.4	61.1	66.4	66.6	63.9	56.4	55.2
23	54.4	52.2	51.8	54.0	64.4	64.0	65.8	70.1	57.3	55.1
24	60.8	56.5	53.4	65.8	76.8	63.3	63.4	59.5	60.5	59.9
25	51.6	53.0	56.1	64.1	64.0	75.4	76.0	65.6	63.7	62.4
26	53.2	61.4	65.5	72.6	68.2	73.9	73.4	65.8	54.3	54.8
27	60.0	63.7	67.1	65.3	70.4	69.9	68.5	66.5	57.1	53.4
28	58.4	63.9	63.1	60.1	66.8	67.9	68.5	63.5	57.3	55.8
29	53.1	54.7	53.1	64.2	63.3	66.0	66.4	61.1	51.7	51.3
30	45.3	47.4	53.2	54.9	58.7	62.8	62.8	57.9	51.2	51.2
31	45.0	46.5	46.9	51.6	56.5	61.2	61.2	55.9	48.2	47.6
32	45.0	45.0	46.5	48.4	54.2	59.4	59.6	54.1	46.0	45.7
33	45.0	45.0	45.0	45.5	50.4	56.5	56.8	51.3	45.0	45.0
34	45.0	45.0	45.0	45.0	48.4	54.9	55.0	48.0	45.0	45.0
35	45.0	45.0	45.0	45.0	45.7	51.9	51.8	45.7	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	49.3	48.5	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	46.1	46.3	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	45.0	45.1
A	62.0	66.1	68.0	71.1	74.0	75.9	75.8	70.0	62.9	62.0
D	67.3	70.0	71.7	75.9	78.3	80.4	80.2	74.4	68.6	68.0
QASPL	76.5	76.0	76.7	79.8	81.0	83.7	83.0	79.5	78.6	78.4
PNL	75.7	77.9	79.4	83.2	85.5	87.4	87.5	81.7	76.9	76.2
PNLT	75.7	79.4	80.5	85.5	85.5	87.4	87.5	81.7	78.0	77.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 61, 110 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.0	-6.5	-5.0	-3.5	-2.0	-.5	0	1.0	2.5	4.5
17	63.6	63.8	62.4	62.2	63.3	63.5	63.6	63.8	64.5	64.5
18	61.1	62.3	63.1	64.2	63.5	63.4	62.9	61.8	64.0	62.2
19	66.7	68.3	69.7	66.2	64.8	59.6	60.1	60.0	60.9	62.2
20	60.5	60.9	60.5	59.8	62.1	75.4	76.2	72.9	60.7	63.5
21	68.6	68.0	68.0	64.8	67.6	75.1	73.8	70.7	61.8	56.6
22	55.5	53.9	54.5	54.2	64.0	67.5	67.8	66.5	63.5	54.2
23	50.7	49.3	52.8	60.8	66.2	65.4	65.0	69.9	71.2	58.2
24	57.8	55.8	66.5	73.6	76.5	68.1	64.7	64.7	59.4	61.2
25	54.5	59.8	61.9	65.0	69.0	76.3	76.7	75.7	64.9	63.8
26	63.2	68.5	69.5	70.6	68.9	73.4	74.3	70.4	64.7	55.0
27	65.1	67.0	62.6	66.6	69.5	70.6	70.1	68.5	66.1	61.3
28	59.7	56.7	60.0	68.3	67.7	69.4	69.6	66.6	63.6	57.9
29	52.7	58.7	64.4	62.4	62.8	66.8	67.0	64.3	60.6	54.6
30	47.3	53.4	57.4	57.8	59.5	63.6	63.3	61.0	57.5	53.9
31	45.0	49.6	54.0	54.4	57.0	62.9	62.6	59.3	55.9	51.1
32	45.0	45.5	48.9	50.8	54.9	60.1	60.7	59.0	53.2	47.5
33	45.0	45.0	46.7	48.8	52.2	57.3	57.4	56.2	51.1	45.2
34	45.0	45.0	45.0	45.2	50.0	55.2	55.2	52.9	47.3	45.0
35	45.0	45.0	45.0	45.0	47.1	52.6	52.4	49.3	45.0	45.0
36	45.0	45.0	45.0	45.0	45.1	49.5	49.3	46.4	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	46.9	47.5	46.6	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	65.3	68.3	70.2	72.7	74.1	76.6	76.9	74.4	69.6	64.1
D	70.4	72.5	74.5	77.3	78.5	81.3	81.4	79.2	74.0	69.2
OASPL	76.3	77.4	78.8	79.4	81.1	83.6	83.8	81.6	77.6	74.3
PNL	78.3	80.3	81.8	83.6	86.0	88.2	88.3	86.8	81.7	77.3
PNLT	78.3	81.5	83.7	84.9	86.0	88.2	88.3	86.8	81.7	77.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 65, 6 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.0	-7.5	-5.0	-2.5	0	2.5	4.5	5.0	7.5	9.0
17	63.7	58.1	60.7	60.7	62.9	63.2	60.8	60.3	64.6	62.4
18	60.4	63.5	63.8	63.3	64.2	62.2	63.9	64.4	63.8	64.4
19	59.2	58.8	60.1	59.6	59.2	60.7	57.5	58.1	61.1	60.9
20	62.4	64.0	62.7	58.9	73.6	73.6	64.6	63.8	68.3	66.8
21	66.6	66.1	62.8	60.7	72.1	71.0	63.4	61.7	59.5	60.8
22	54.1	51.9	55.9	59.6	64.9	67.2	70.0	68.7	54.1	52.4
23	52.9	56.6	65.9	70.2	70.0	69.2	77.6	77.2	62.6	52.6
24	59.8	64.1	75.6	76.4	69.0	65.8	69.4	70.4	62.8	56.4
25	54.7	65.5	66.3	63.9	77.2	77.1	71.7	69.7	67.3	63.3
26	64.6	65.6	64.8	68.8	72.9	73.8	75.9	75.7	65.3	64.2
27	63.6	62.1	69.5	70.2	73.9	70.9	72.3	71.5	62.0	58.5
28	57.3	68.2	68.2	69.6	71.8	72.3	72.1	72.4	66.5	58.1
29	52.8	64.0	67.9	64.0	68.2	63.8	73.2	73.0	59.3	56.3
30	50.6	60.3	61.5	61.3	65.0	66.0	67.6	67.8	56.6	52.5
31	51.7	53.1	57.5	58.9	63.1	64.7	63.8	63.7	52.4	50.8
32	46.4	49.8	53.7	56.7	60.7	63.3	59.6	59.5	48.7	46.9
33	45.3	46.7	51.4	53.7	58.6	60.7	55.5	55.2	47.3	45.3
34	45.0	45.1	48.8	50.6	56.2	57.5	52.0	51.6	45.7	45.0
35	45.0	45.0	45.0	47.1	54.2	54.3	48.0	47.8	45.0	45.0
36	45.0	45.0	45.0	45.2	49.3	49.3	45.4	45.4	45.0	45.0
37	45.0	45.0	45.0	45.0	45.6	46.2	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.2	45.0	45.0	45.0
A	65.6	70.6	73.5	74.1	77.7	77.6	78.1	77.9	69.3	65.2
D	71.2	73.9	77.7	78.4	81.8	81.9	81.7	81.2	73.9	70.3
JASPL	75.6	76.6	80.4	81.8	84.4	83.5	83.5	83.1	78.9	76.3
PNL	78.5	81.4	85.2	85.9	88.9	89.0	88.7	88.4	80.6	78.2
PNLT	79.5	83.1	85.2	85.9	88.9	89.0	89.8	88.4	82.5	79.2

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 83, 9 DEGREE APPROACH, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	1.5	3.5	6.0	6.5
17	59.9	59.3	60.7	60.6	63.6	62.8	63.4	62.8	61.4	63.0	63.6
18	60.8	59.8	60.3	58.9	65.0	63.7	65.3	65.6	64.8	64.7	64.0
19	59.4	59.1	57.3	58.2	63.2	58.8	59.0	59.3	58.4	60.7	60.2
20	58.6	58.2	58.8	58.9	69.5	75.2	74.6	73.0	62.2	68.0	68.4
21	64.2	64.2	63.8	62.9	73.0	73.3	71.6	70.8	63.0	63.1	64.2
22	51.9	52.0	54.0	60.7	67.6	66.5	68.1	68.5	62.9	54.8	54.4
23	54.1	58.0	61.2	67.6	70.8	67.2	70.0	72.1	74.4	58.7	57.0
24	63.8	68.6	71.4	75.8	74.4	67.0	69.0	69.3	65.9	60.5	57.7
25	65.9	65.7	62.2	61.4	76.9	77.0	78.2	78.3	65.3	65.3	63.4
26	65.4	65.7	60.9	66.7	72.1	75.5	74.5	72.7	70.0	63.3	63.7
27	60.6	53.6	62.8	69.6	72.2	73.1	71.5	72.4	69.5	58.5	57.7
28	62.9	59.9	63.0	67.7	71.6	72.0	72.9	72.7	68.8	61.9	55.6
29	60.0	53.5	59.6	63.3	68.0	69.3	69.9	70.1	64.6	57.5	56.3
30	57.5	53.3	54.5	60.5	65.3	66.6	66.8	67.3	61.9	55.6	54.8
31	53.6	49.0	51.4	57.2	62.7	64.0	64.6	64.9	60.5	52.6	52.5
32	46.8	46.6	48.4	54.5	60.3	61.2	62.3	63.5	57.9	51.1	49.8
33	45.0	45.1	45.5	51.4	57.9	59.1	60.4	61.4	54.5	48.0	46.7
34	45.0	45.0	45.0	48.5	56.1	57.2	57.2	58.7	51.1	45.7	45.1
35	45.0	45.0	45.0	45.4	53.3	54.4	54.2	55.3	47.5	45.0	45.0
36	45.0	45.0	45.0	45.0	48.9	49.3	49.6	50.7	45.2	45.0	45.0
37	45.0	45.0	45.0	45.0	45.8	45.6	46.1	47.2	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.2	45.0	45.0	45.0	45.0	45.0
A	68.3	66.5	67.8	73.1	77.6	77.9	78.3	78.3	73.8	66.6	64.8
D	72.4	72.5	73.2	77.6	81.8	82.3	82.7	82.8	77.9	71.6	70.5
OASPL	75.0	75.9	77.1	80.6	84.8	85.0	84.5	84.1	79.8	76.0	76.3
PNL	79.4	79.2	81.0	85.0	88.9	89.2	89.8	90.1	84.9	79.0	78.4
PNLT	79.4	81.4	81.0	85.0	88.9	89.2	89.8	90.1	84.9	80.3	78.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 104, 130 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-11.5	-8.5	-5.5	-2.5	0	.5	3.5	6.5	8.5
17	53.4	53.3	54.4	54.4	55.9	54.4	54.7	53.0	56.6	54.6
18	55.1	57.3	57.4	58.0	57.5	56.4	55.0	58.1	58.6	55.2
19	63.0	67.8	68.8	67.3	59.9	54.4	54.2	51.3	56.6	56.7
20	52.8	55.8	56.8	55.2	56.5	73.1	73.5	58.3	57.4	57.5
21	62.9	67.7	69.4	64.8	66.9	71.3	69.8	62.1	51.0	54.0
22	50.7	56.3	56.8	49.9	61.5	64.4	63.9	60.7	50.0	49.4
23	48.0	50.8	48.8	55.4	62.6	58.1	56.8	66.8	54.8	46.9
24	58.2	57.1	60.0	71.5	74.4	59.8	60.2	55.8	57.1	53.6
25	45.0	53.7	58.4	62.4	65.8	70.2	70.1	65.6	59.4	59.3
26	48.7	65.5	71.0	73.3	70.3	70.8	72.2	64.2	50.9	54.1
27	58.9	64.5	67.0	62.9	64.7	68.3	68.0	64.3	58.6	47.9
28	57.0	61.0	54.3	67.6	65.2	65.4	64.9	60.8	53.7	52.6
29	52.0	53.7	55.9	62.3	60.7	63.1	63.5	58.8	49.5	48.3
30	45.0	48.2	49.6	59.2	57.3	62.1	62.0	56.0	47.7	47.1
31	45.0	45.0	45.5	52.1	54.1	60.8	60.5	54.4	46.6	45.0
32	45.0	45.0	45.0	48.1	51.5	58.8	58.6	52.1	45.3	45.0
33	45.0	45.0	45.0	45.7	47.5	55.2	55.2	49.5	45.0	45.0
34	45.0	45.0	45.0	45.0	45.4	52.9	52.4	46.0	45.0	45.0
35	45.0	45.0	45.0	45.0	45.0	47.9	47.6	45.0	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	45.1	45.1	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.2	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	60.0	66.3	68.7	72.4	71.9	73.1	73.1	67.9	60.2	58.2
D	67.0	71.1	73.3	76.6	76.5	77.3	77.3	72.5	67.1	66.3
OASPL	70.6	75.0	76.8	78.4	78.5	79.9	79.8	73.8	67.8	66.1
PNL	74.3	78.5	81.3	83.7	83.7	84.6	85.0	79.5	74.3	73.4
PNLT	75.3	78.5	82.6	85.4	83.7	84.6	85.0	79.5	74.3	74.9

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 105, 130 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-18.0	-14.5	-11.0	-7.5	-7.0	-4.0	-0.5	0	3.0	6.5	8.0
17	56.6	55.9	57.3	60.9	59.9	60.2	60.5	60.7	59.4	59.6	59.0
18	66.8	64.0	66.7	64.4	63.7	63.2	57.4	58.5	60.7	59.2	57.3
19	60.9	61.3	64.6	65.5	66.2	61.8	57.0	57.6	59.4	56.1	57.6
20	55.7	57.4	57.6	57.1	56.6	54.3	73.0	73.4	62.0	57.9	59.2
21	63.9	66.6	66.9	66.4	65.9	59.1	71.0	71.0	65.0	53.4	53.8
22	52.4	52.8	53.1	50.9	49.8	57.1	64.3	65.1	62.1	48.7	46.5
23	52.0	50.0	48.7	54.4	55.4	61.6	57.6	56.8	67.1	55.7	48.2
24	60.2	59.0	54.2	68.9	70.3	74.8	59.0	60.1	57.8	59.7	55.4
25	47.4	47.1	57.1	66.6	66.4	58.6	70.2	70.2	68.1	62.1	59.4
26	52.4	52.4	65.0	74.2	74.7	64.1	70.1	71.5	64.9	53.5	54.0
27	53.0	55.6	65.4	64.2	62.7	69.9	57.2	67.0	64.9	60.9	48.8
28	53.9	55.1	60.2	64.6	66.3	60.8	64.8	65.7	62.7	58.2	52.8
29	48.4	47.0	50.9	61.3	61.6	59.3	62.1	63.4	60.4	53.4	48.1
30	45.0	45.0	48.4	53.5	55.7	54.7	59.7	61.0	57.1	51.0	47.2
31	45.0	45.0	45.0	47.5	49.0	51.0	59.0	59.6	55.0	49.4	45.0
32	45.0	45.0	45.0	45.0	45.0	48.5	56.6	57.1	53.6	47.3	45.0
33	45.0	45.0	45.0	45.0	45.0	45.4	52.3	52.8	50.3	45.2	45.0
34	45.0	45.0	45.0	45.0	45.0	45.0	49.2	50.0	46.8	45.0	45.0
35	45.0	45.0	45.0	45.0	45.0	45.0	45.5	45.6	45.0	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.1	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.5	45.0	45.0	45.0	45.0
A	57.9	58.8	65.4	72.3	72.9	71.5	72.0	72.8	68.8	63.4	58.2
D	66.9	67.2	70.6	76.3	76.9	75.8	76.2	76.7	73.9	68.9	66.3
OASPL	70.8	71.5	74.2	78.0	78.3	77.8	79.2	79.5	75.4	69.7	67.2
PNL	74.0	74.4	78.3	83.9	84.2	82.9	83.7	84.5	81.1	76.0	73.5
PNLT	75.0	74.4	78.3	83.9	85.6	82.9	83.7	84.5	81.1	76.0	75.0

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 106, 144 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.5	-5.0	-3.5	-2.0	-.5	0	1.0	2.5	4.0
17	56.0	59.3	61.2	65.0	64.3	64.4	60.3	59.7	62.0
18	58.1	59.3	61.8	63.4	64.1	64.1	62.8	64.7	63.5
19	72.7	74.1	76.8	73.8	63.2	60.5	60.0	59.3	62.9
20	59.4	60.5	62.3	59.3	67.5	74.8	77.1	62.0	63.7
21	73.7	73.9	74.4	69.8	76.8	77.9	75.7	65.5	57.0
22	64.9	65.6	64.4	56.7	71.1	71.9	70.3	66.3	53.0
23	59.6	57.8	53.6	60.8	67.9	67.1	68.6	70.5	56.8
24	68.6	62.7	68.0	77.9	77.8	74.5	68.1	64.3	64.6
25	53.0	54.7	62.5	64.9	73.5	74.9	76.8	70.3	67.9
26	56.1	70.0	77.1	75.6	76.9	77.3	75.7	68.9	61.6
27	66.9	71.6	74.2	72.3	74.1	74.2	73.0	70.6	63.1
28	66.1	67.7	64.0	71.5	71.0	71.6	71.3	66.5	63.3
29	61.7	59.6	63.6	67.4	69.2	69.8	69.8	65.0	58.4
30	52.3	56.8	59.3	64.5	66.1	67.5	67.6	61.7	55.5
31	49.8	55.0	55.1	60.4	64.4	67.2	67.7	60.5	53.8
32	43.3	47.9	51.8	56.9	63.4	65.9	65.8	58.9	52.2
33	38.1	44.8	48.2	54.3	60.8	62.7	63.1	56.2	49.7
34	35.0	37.5	42.0	49.7	58.0	60.8	61.7	53.8	46.0
35	35.0	36.3	37.3	46.6	55.8	57.7	57.6	49.5	42.1
36	35.0	35.8	35.0	41.2	50.7	53.5	54.1	46.4	38.2
37	35.0	36.3	35.0	36.4	47.0	50.6	51.9	43.9	36.8
38	35.0	36.7	35.0	35.0	44.0	46.7	46.9	38.9	36.8
39	35.0	36.3	35.0	35.0	40.7	43.8	44.5	35.9	38.1
40	35.0	38.3	35.0	35.0	39.9	42.0	41.7	35.2	39.3
A	69.3	72.3	75.4	76.8	78.3	79.1	78.6	73.3	68.0
D	73.7	76.1	79.6	80.9	82.8	83.4	83.1	77.2	72.4
OASPL	78.8	80.4	83.4	84.3	85.3	85.7	85.0	78.6	74.1
PNL	79.6	82.7	86.4	87.2	90.2	91.2	90.4	84.6	79.4
PNLT	80.6	82.7	86.4	87.2	90.2	91.2	90.4	84.6	79.4

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 107, 144 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.5	-8.5	-6.5	-4.5	-2.5	-.5	0	1.5	3.5	6.0
17	51.5	54.1	54.7	57.8	59.4	62.3	60.9	57.3	59.8	60.9
18	54.2	55.8	55.2	58.5	60.7	59.9	59.1	55.9	62.1	58.4
19	65.0	68.3	70.2	72.5	72.1	62.8	60.6	58.4	59.3	59.6
20	56.2	57.4	57.2	59.4	58.2	63.4	71.8	76.7	57.9	62.0
21	68.9	70.0	69.9	72.8	70.2	73.4	76.4	75.1	59.5	58.1
22	57.7	59.2	59.7	61.2	54.5	67.3	68.6	69.3	63.9	48.9
23	52.4	54.6	53.3	52.4	57.8	66.8	66.4	65.2	68.9	48.3
24	64.9	64.9	60.2	61.7	75.9	77.8	75.7	65.9	61.9	60.1
25	47.9	50.0	52.1	61.4	65.2	72.7	75.0	75.8	65.7	64.6
26	50.3	60.1	65.3	75.0	77.2	74.8	75.4	75.7	65.8	62.4
27	56.6	64.6	68.4	73.5	67.0	71.6	71.7	71.5	68.9	58.8
28	62.2	64.3	63.8	64.6	70.0	69.8	70.6	69.6	64.2	58.0
29	62.1	61.7	55.5	59.7	66.3	67.7	68.1	68.4	62.6	55.2
30	50.8	51.3	51.6	55.0	63.1	63.3	65.2	65.7	60.4	50.6
31	45.1	50.2	48.3	48.7	58.1	61.2	62.8	63.9	58.8	49.5
32	45.0	45.0	45.0	46.8	54.2	60.5	61.6	62.3	56.1	47.8
33	45.0	45.0	45.0	45.5	51.2	57.3	58.4	59.2	53.4	45.1
34	45.0	45.0	45.0	45.0	46.5	55.0	56.7	56.8	50.3	45.0
35	45.0	45.0	45.0	45.0	45.0	51.5	52.9	53.4	47.2	45.0
36	45.0	45.0	45.0	45.0	45.0	47.6	48.9	50.2	45.8	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	46.3	47.9	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.1	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.0
A	65.5	68.2	69.2	74.2	75.8	76.8	77.3	77.3	71.2	64.4
D	70.2	72.0	73.1	78.0	80.4	81.4	81.7	81.6	75.1	70.1
OASPL	73.5	75.5	77.2	80.6	82.5	83.5	83.8	83.9	76.2	71.8
PNL	77.1	79.1	80.5	84.9	87.3	88.4	89.0	89.0	82.7	77.3
PNLT	78.7	79.1	80.5	84.9	88.4	88.4	89.0	89.0	82.7	77.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 108, 150 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.5	-5.5	-4.5	-3.5	-2.5	-1.5	-.5	0	.5	3.0
17	60.3	60.5	61.9	62.6	63.4	64.6	64.5	63.0	61.0	61.8
18	61.2	60.4	60.0	60.6	62.2	64.5	64.2	62.3	59.1	60.4
19	73.9	75.2	75.8	76.6	76.5	73.2	67.5	67.1	67.5	68.3
20	60.2	60.5	61.6	62.7	62.2	60.3	75.9	79.1	79.4	63.6
21	73.0	73.7	74.8	75.6	73.5	70.7	79.8	79.8	78.4	57.6
22	63.4	64.5	65.0	64.2	59.1	65.7	72.4	72.6	72.5	60.2
23	58.9	58.5	57.1	55.6	61.6	67.4	69.0	68.1	68.2	63.4
24	65.6	63.5	61.9	71.2	78.5	81.2	77.6	72.7	69.5	66.0
25	52.6	54.0	58.1	63.5	66.2	67.9	75.2	76.8	77.1	69.1
26	64.3	62.7	74.1	78.5	78.8	77.1	78.9	78.9	77.4	63.1
27	68.6	71.9	74.5	75.0	72.2	76.7	76.2	76.8	75.2	68.5
28	68.3	68.8	67.0	64.4	71.4	72.6	73.2	73.2	73.8	66.5
29	65.0	62.7	58.5	65.2	67.5	70.3	72.1	72.6	72.4	61.9
30	56.7	55.6	56.9	57.9	63.5	66.5	68.9	69.9	69.6	59.4
31	54.9	54.5	51.5	54.9	59.5	63.8	67.6	68.9	68.7	57.2
32	47.6	47.0	48.9	53.9	57.9	61.4	65.8	67.2	67.3	55.2
33	45.1	45.1	46.4	52.3	55.9	59.4	63.6	64.7	64.2	52.6
34	45.0	45.0	45.0	46.9	50.6	56.1	61.0	62.3	62.3	49.2
35	45.0	45.0	45.0	45.2	47.4	53.0	59.0	59.8	59.1	46.4
36	45.0	45.0	45.0	45.0	45.0	48.7	54.1	55.5	55.1	45.6
37	45.0	45.0	45.0	45.0	45.0	46.2	51.8	53.3	53.6	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	48.8	50.3	50.1	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	46.6	47.9	47.9	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	46.3	46.9	46.7	45.0
A	72.0	73.2	74.6	76.6	78.0	79.4	80.1	80.7	80.3	71.1
D	75.7	76.9	78.5	80.9	82.4	84.0	84.9	85.3	84.6	75.5
OASPL	79.4	80.7	82.3	84.2	85.4	86.6	87.0	87.2	86.7	77.1
PNL	82.2	83.7	85.2	88.2	89.4	90.8	92.7	93.0	92.2	82.6
PNLT	82.2	83.7	85.2	89.5	89.4	90.8	92.7	93.0	92.2	82.6

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 109, 150 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.0	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5	4.0
17	51.3	57.8	57.7	58.5	60.5	63.5	62.6	59.4	61.2	60.6
18	54.4	57.9	57.5	59.4	62.1	64.6	62.2	58.8	59.9	58.7
19	58.2	62.9	69.1	72.6	74.9	70.7	56.6	58.7	59.4	60.0
20	51.5	56.6	57.3	60.3	61.0	57.2	75.4	77.6	58.8	60.1
21	60.9	66.1	70.4	73.7	73.5	67.6	78.9	75.9	58.3	54.9
22	55.3	56.6	61.4	63.1	61.6	63.5	70.9	71.6	63.0	59.1
23	56.0	53.4	56.7	57.2	52.3	66.6	67.5	66.4	65.9	62.0
24	69.3	68.5	67.1	65.1	66.6	80.8	72.6	67.4	65.4	65.2
25	57.0	54.3	52.1	52.0	61.2	66.1	74.6	75.2	66.0	67.5
26	63.5	64.3	57.8	65.0	76.0	75.3	77.1	76.1	65.3	60.6
27	52.6	55.6	62.3	69.4	72.9	77.3	74.5	73.6	68.4	67.1
28	48.1	64.4	65.7	65.7	61.3	71.9	71.6	71.8	64.9	62.6
29	54.9	65.1	67.0	60.5	62.1	70.9	71.0	70.9	62.0	59.5
30	53.5	62.7	62.0	52.0	54.7	65.2	69.0	68.4	59.2	56.5
31	48.6	56.0	52.7	51.2	51.8	62.2	65.7	66.0	57.5	55.1
32	43.5	46.3	48.6	45.4	48.9	60.4	64.1	64.7	55.0	52.5
33	43.5	45.0	45.1	45.0	46.3	57.9	61.5	61.5	52.7	50.4
34	43.5	45.0	45.0	45.0	45.0	53.7	59.2	60.1	49.8	47.4
35	43.5	45.0	45.0	45.0	45.0	50.4	56.4	57.0	46.2	45.3
36	43.5	45.0	45.0	45.0	45.0	46.3	51.6	52.2	45.2	45.0
37	43.5	45.0	45.0	45.0	45.0	45.0	48.9	50.2	45.0	45.0
38	43.5	45.0	45.0	45.0	45.0	45.0	46.3	46.8	45.0	45.0
39	43.5	45.0	45.0	45.0	45.0	45.0	45.3	45.2	45.0	45.0
40	43.5	45.3	45.0	45.0	45.3	45.0	46.1	45.9	45.0	45.3
A	64.3	70.2	71.2	70.9	74.4	79.2	79.4	78.8	70.8	69.0
D	70.5	72.8	73.4	74.7	78.6	83.3	83.3	82.9	75.0	73.5
OASPL	72.3	74.8	77.0	79.3	81.8	85.3	85.0	84.8	76.1	74.7
PNL	78.2	80.0	80.8	81.9	85.7	89.9	90.8	90.3	82.3	80.8
PNLT	79.5	81.3	81.8	81.9	87.1	89.9	90.8	90.3	82.3	80.8

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 110, 130 MPH FLY BY, CENTERLINE MIC. (HARD SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.0	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5	4.5
17	55.3	54.3	55.4	56.8	58.5	62.3	60.8	59.8	59.8	61.0
18	56.6	54.8	58.0	58.9	59.8	62.4	60.6	57.9	62.4	61.4
19	62.4	65.6	69.5	72.4	72.3	66.4	59.2	60.4	59.1	60.1
20	55.4	57.6	58.6	60.3	60.3	59.1	76.7	78.7	60.3	63.2
21	65.5	69.9	71.8	72.8	72.6	66.7	78.4	75.9	58.7	56.4
22	56.2	59.3	61.8	62.1	59.1	63.3	71.0	69.2	61.7	53.7
23	51.6	54.3	55.8	56.6	53.3	65.5	66.6	66.7	68.5	58.5
24	64.3	67.4	68.4	63.2	71.0	78.7	72.1	67.8	63.1	63.1
25	51.7	52.0	51.2	56.1	64.8	65.9	75.2	76.3	65.0	66.7
26	62.6	61.3	53.5	69.0	77.1	72.6	75.5	76.5	63.4	59.4
27	50.9	58.0	63.8	71.5	71.1	74.5	73.8	73.9	68.4	63.8
28	61.8	60.1	63.4	68.3	63.2	69.9	71.4	70.8	64.3	62.7
29	63.7	60.7	60.5	59.4	66.2	68.4	68.9	69.2	61.3	57.7
30	59.1	57.0	51.3	54.3	57.9	64.1	65.8	66.0	58.8	56.0
31	52.1	49.5	45.0	50.9	54.9	60.5	64.5	65.5	56.6	53.2
32	45.4	45.0	45.0	45.8	51.6	58.7	63.0	63.6	54.7	51.8
33	45.0	45.0	45.0	45.0	48.4	55.4	60.3	60.6	51.9	48.7
34	45.0	45.0	45.0	45.0	45.0	52.5	58.3	58.4	48.8	45.8
35	45.0	45.0	45.0	45.0	45.0	49.4	54.9	55.6	45.7	45.0
36	45.0	45.0	45.0	45.0	45.0	45.9	51.7	52.4	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.0	49.2	50.5	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	46.3	46.7	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.1	45.3	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.1	45.0	45.0	45.0	45.0
A	67.5	66.4	67.7	72.8	74.7	76.6	78.1	78.3	69.6	67.4
D	70.6	71.2	72.6	76.2	79.3	81.3	82.5	82.5	74.2	72.2
OASPL	72.7	74.8	76.9	79.4	81.4	83.4	84.8	85.0	75.5	73.6
PNL	78.1	78.9	79.5	83.1	86.7	88.1	89.8	90.2	82.0	79.4
PNLT	80.0	78.9	79.5	83.1	88.5	88.1	89.8	90.2	82.0	79.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 106, 144 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-7.5	-6.0	-4.5	-3.0	-1.5	0	1.5	3.0	4.0
17	55.2	56.4	56.6	58.9	63.1	61.7	60.0	55.7	53.2
18	56.1	56.6	57.9	59.2	62.6	63.6	61.7	61.7	61.9
19	68.2	69.8	70.9	73.0	73.7	67.5	57.6	57.2	59.5
20	56.0	56.0	56.8	57.2	57.9	64.3	74.5	63.1	60.7
21	70.9	70.2	69.5	68.2	65.5	74.3	74.7	66.7	53.2
22	61.2	59.5	57.0	52.3	58.1	68.0	70.3	65.9	58.2
23	52.0	49.2	49.9	55.2	61.8	67.1	68.6	68.7	62.0
24	58.0	65.9	68.2	71.0	77.8	77.2	65.7	63.1	64.2
25	54.5	58.1	59.3	60.6	64.4	71.5	76.1	70.7	65.8
26	70.3	73.2	73.5	73.9	73.4	76.1	72.6	69.1	62.9
27	67.3	72.4	69.8	66.3	72.2	72.8	71.6	70.3	68.1
28	63.1	67.4	61.2	60.8	69.5	71.0	70.9	65.9	62.7
29	58.5	59.2	58.3	60.4	65.9	69.1	69.2	64.5	59.3
30	52.7	59.5	56.7	52.7	62.0	66.3	67.8	60.8	56.9
31	48.8	55.0	48.7	49.7	57.2	65.1	67.3	59.7	55.6
32	41.9	45.7	44.5	45.8	54.5	63.9	67.3	58.5	53.1
33	35.8	39.9	39.3	41.9	51.0	60.2	63.3	55.0	49.5
34	35.0	35.0	35.2	37.0	46.3	57.9	60.8	52.6	45.9
35	35.0	35.0	35.0	35.4	43.2	56.5	59.1	48.8	42.7
36	35.0	35.0	35.0	35.0	37.9	51.0	55.3	45.9	40.0
37	35.0	35.0	35.0	35.0	35.0	49.0	52.3	44.6	37.1
38	35.0	35.0	35.0	35.0	35.0	43.3	48.1	38.5	35.0
39	35.0	35.0	35.0	35.0	35.0	37.8	44.0	36.0	35.0
40	35.0	35.0	35.0	35.0	35.0	36.8	41.1	35.4	35.0
A	69.3	73.2	71.7	71.4	75.5	78.0	77.9	73.0	69.3
D	73.5	76.8	75.8	76.3	79.9	82.2	82.4	77.0	73.3
OASPL	76.6	78.7	78.8	80.1	83.0	84.0	83.5	77.7	74.1
PNL	80.2	83.0	82.5	82.8	86.3	89.5	89.7	84.2	80.4
PNLT	80.2	83.0	82.5	82.8	86.3	89.5	89.7	84.2	80.4

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE B-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

HUGHES 500 C

OCTOBER 28 1976

EVENT 107, 144 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-11.5	-9.0	-6.5	-4.0	-1.5	0	1.0	3.5	6.0	6.5
17	49.0	50.9	53.5	56.1	57.6	59.5	58.2	54.8	59.3	58.8
18	52.5	52.1	55.7	56.9	62.3	59.2	56.5	57.9	57.7	57.1
19	60.8	64.1	68.5	70.7	70.4	65.3	56.6	56.6	59.5	58.9
20	50.9	54.4	56.7	55.7	54.5	64.8	75.2	61.5	60.3	59.6
21	62.3	67.2	69.4	66.7	62.6	73.1	75.9	63.6	53.8	54.2
22	53.3	56.7	57.7	51.0	58.7	66.9	69.1	63.7	49.1	47.1
23	46.9	50.3	49.2	52.2	62.4	65.5	63.2	68.0	52.2	49.0
24	48.6	53.2	64.3	68.8	77.7	75.9	67.6	60.7	61.9	59.9
25	50.0	56.4	57.6	59.0	63.2	71.3	75.2	67.5	64.3	63.0
26	62.2	69.0	70.2	71.5	72.8	73.3	73.5	56.2	59.8	60.3
27	64.3	69.1	68.5	65.9	73.6	70.8	70.7	67.2	58.8	56.8
28	64.7	65.3	61.0	58.7	67.7	69.2	68.8	63.3	61.1	57.3
29	61.3	57.9	52.9	58.8	64.5	66.1	67.4	62.2	55.6	55.0
30	50.5	52.0	53.5	50.6	59.2	63.4	65.7	59.4	53.3	51.5
31	45.0	50.5	46.3	45.9	54.3	62.6	65.7	58.4	52.4	51.1
32	45.0	45.0	45.3	45.2	51.9	61.4	63.7	55.6	49.9	48.6
33	45.0	45.0	45.0	45.0	49.0	57.1	59.2	52.7	46.5	45.2
34	45.0	45.0	45.0	45.0	45.8	54.8	56.8	49.3	45.1	45.0
35	45.0	45.0	45.0	45.0	45.0	52.1	54.3	46.5	45.0	45.0
36	45.0	45.0	45.0	45.0	45.0	48.7	50.8	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.7	47.7	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	67.2	69.9	70.0	70.2	75.3	76.0	77.0	70.5	65.1	63.3
D	70.1	73.5	73.5	74.9	79.9	80.7	81.4	74.9	69.9	68.6
OASPL	71.2	74.9	76.4	77.9	81.8	82.2	83.1	75.7	71.2	69.9
PNL	77.7	80.7	81.4	82.0	86.2	87.5	88.2	82.0	77.5	76.4
PNLT	77.7	80.7	82.7	83.4	86.2	87.5	88.2	82.0	78.8	76.4

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE B-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 94, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA),

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	59.4	61.6	57.8	59.3	1.1
15	71.6	75.0	63.0	70.7	3.2
16	64.6	66.7	60.4	64.3	1.6
17	71.1	73.1	68.6	71.0	1.2
18	69.3	71.4	67.6	69.2	.7
19	66.4	68.2	64.3	66.3	1.1
20	73.0	73.9	70.5	72.8	1.4
21	73.1	74.3	71.2	73.1	.8
22	68.2	70.3	66.0	68.0	1.1
23	69.7	72.3	63.7	69.1	2.6
24	64.6	66.6	61.6	64.4	1.4
25	71.3	74.3	67.4	70.9	1.9
26	71.2	73.3	68.4	71.0	1.4
27	70.9	73.2	67.1	70.6	1.8
28	70.6	73.1	67.3	70.4	1.5
29	68.5	70.3	65.5	68.2	1.4
30	66.8	68.5	63.7	66.5	1.6
31	64.1	65.7	60.9	63.9	1.4
32	63.1	65.6	60.7	62.9	1.3
33	59.7	62.6	55.7	59.3	1.8
34	57.8	62.6	52.9	57.2	2.3
35	55.1	58.9	50.8	54.5	2.3
36	50.1	52.7	46.3	49.7	1.9
37	46.0	47.7	45.0	45.9	.8
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	76.2	77.6	73.7	76.0	1.0
DBD	80.1	82.4	78.3	80.0	1.0
OASPL	82.0	83.4	80.2	81.9	.8
PNL	87.4	89.2	85.8	87.3	.9
PNLT	87.4	89.2	85.8	87.3	.9

270°
(Microphone Location)
(Relative to Helicopter)

TABLE B-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 95, 45 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	59.3	61.9	56.5	59.1	1.5
15	71.7	73.4	68.4	71.4	1.5
16	62.3	64.5	58.6	62.0	1.6
17	66.0	68.2	63.7	65.8	1.3
18	69.5	71.8	67.0	69.3	1.3
19	65.4	66.9	61.2	65.2	1.5
20	74.4	76.6	71.4	74.2	1.5
21	73.7	74.9	72.1	73.6	.7
22	68.4	70.1	66.1	68.3	1.0
23	69.8	71.7	65.5	69.6	1.6
24	66.5	67.9	64.2	66.4	1.0
25	74.6	76.4	71.3	74.4	1.5
26	78.5	80.6	73.9	78.2	1.9
27	77.7	81.0	72.2	76.9	2.7
28	76.7	81.4	71.0	75.8	2.8
29	75.0	80.3	70.5	74.2	2.5
30	72.4	77.5	68.3	71.8	2.2
31	72.1	77.8	66.6	71.1	2.9
32	71.1	76.9	64.3	69.8	3.3
33	66.8	72.6	58.8	65.6	3.2
34	63.5	70.3	55.5	61.9	3.7
35	60.3	67.2	52.6	58.5	3.8
36	54.9	61.6	49.5	53.6	3.2
37	48.6	54.1	45.6	48.0	2.1
38	45.3	47.3	45.0	45.2	.6
39	45.1	46.0	45.0	45.1	.3
40	45.0	45.0	45.0	45.0	.0
DBA	82.5	87.1	78.7	81.9	2.3
DBD	85.7	90.3	81.8	85.2	2.2
OASPL	85.6	88.8	82.9	85.3	1.6
PNL	92.8	96.8	89.3	92.4	1.9
PNLT	92.8	96.8	89.3	92.4	1.9

225°
(Microphone Location
Relative to Helicopter)

TABLE B-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 97, 90 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	64.3	68.0	59.3	63.7	2.4
15	72.8	73.9	71.3	72.8	.6
16	65.5	68.1	61.4	65.1	1.9
17	66.1	68.7	63.3	65.9	1.4
18	69.2	73.9	64.8	68.4	2.5
19	66.3	70.1	63.4	66.0	1.7
20	78.2	79.9	76.7	78.2	.8
21	74.2	77.1	71.8	74.1	1.0
22	69.7	71.5	68.6	69.7	.8
23	76.9	79.2	73.9	76.7	1.3
24	69.6	71.7	67.1	69.5	1.0
25	76.3	79.1	72.4	75.9	1.8
26	77.3	79.9	74.7	77.0	1.4
27	75.1	76.9	71.4	74.9	1.3
28	73.7	76.4	71.1	73.4	1.4
29	73.0	75.1	70.4	72.8	1.5
30	70.8	73.5	67.3	70.4	1.8
31	68.2	72.4	63.1	67.7	2.3
32	66.6	70.2	62.1	66.1	2.2
33	64.1	67.4	59.1	63.7	2.0
34	61.8	64.3	56.5	61.5	2.0
35	58.6	61.3	54.5	58.3	1.7
36	53.5	56.2	49.2	53.2	1.7
37	47.8	49.4	45.0	47.7	1.1
38	45.0	45.0	45.0	45.0	.1
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	80.3	81.6	78.5	80.2	.9
DBD	84.3	86.1	82.5	84.3	.8
OASPL	85.6	87.5	84.1	85.6	.8
PNL	91.8	93.5	90.2	91.7	.8
PNLT	91.8	93.5	90.2	91.7	.8

180°
(Microphone Location
Relative to Helicopter)

TABLE B-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 98, 135 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	57.9	61.5	52.2	57.2	2.5
15	70.7	71.9	69.5	70.6	.6
16	56.6	58.4	54.8	56.4	1.1
17	56.8	58.7	53.7	56.6	1.2
18	65.1	69.9	60.5	64.3	2.4
19	61.9	63.4	60.3	61.8	.9
20	74.8	76.7	73.0	74.7	1.0
21	73.5	75.4	71.4	73.4	.9
22	68.3	70.2	66.0	68.2	1.0
23	71.1	72.7	69.4	71.1	.9
24	68.8	71.5	64.3	68.3	2.1
25	76.0	79.4	70.9	75.4	2.3
26	76.4	78.7	72.6	76.1	1.7
27	76.0	79.1	70.4	75.4	2.4
28	76.6	79.7	69.9	75.9	2.6
29	75.8	79.3	69.6	75.0	2.8
30	73.0	75.9	64.7	71.9	3.4
31	69.3	71.8	60.4	68.3	3.3
32	67.2	71.1	58.6	65.8	3.7
33	63.8	67.4	57.6	62.6	3.2
34	60.9	64.3	56.1	60.2	2.5
35	57.5	60.3	53.5	57.1	1.9
36	52.0	54.8	49.0	51.7	1.8
37	47.0	49.6	45.0	46.8	1.4
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	81.5	84.4	76.1	80.9	2.4
DBD	84.6	87.4	79.8	84.1	2.2
OASPL	85.1	87.6	81.3	84.7	1.8
PNL	91.5	94.0	87.4	91.1	1.9
PNLT	91.5	94.0	87.4	91.1	1.9

135°
(Microphone Location
Relative to Helicopter)

TABLE A-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 99, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	60.7	64.0	55.0	60.1	2.4
15	73.0	73.9	72.1	73.0	.5
16	58.4	60.6	56.1	58.2	1.3
17	57.0	60.0	53.5	56.7	1.4
18	64.7	67.1	60.2	64.3	1.9
19	60.5	63.8	58.5	60.3	1.3
20	68.1	70.0	66.1	68.0	.8
21	72.0	73.7	69.6	71.9	1.0
22	66.9	68.7	65.1	66.8	.9
23	74.2	76.6	69.8	73.9	1.8
24	68.0	70.1	65.6	67.8	1.2
25	73.2	76.2	69.3	72.9	1.8
26	75.7	77.8	72.4	75.4	1.5
27	74.1	76.1	70.2	73.8	1.7
28	74.4	76.3	69.5	74.0	1.8
29	73.6	76.0	68.5	73.2	1.9
30	71.3	74.4	66.5	70.8	2.0
31	68.8	72.1	63.5	68.3	2.0
32	66.4	70.2	61.7	65.9	2.1
33	61.9	65.5	56.6	61.2	2.5
34	58.5	63.2	52.6	57.7	2.6
35	55.2	60.5	50.9	54.4	2.5
36	49.6	53.5	46.9	49.3	1.8
37	45.8	47.4	45.0	45.8	.7
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	79.9	82.6	75.9	79.6	1.7
DBD	83.0	85.4	79.8	82.8	1.5
OASPL	83.6	85.5	80.7	83.4	1.3
PNL	90.0	92.4	87.0	89.8	1.3
PNLT	90.0	92.4	87.0	89.8	1.3

90°
(Microphone Location
Relative to Helicopter)

TABLE B-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 100, 225 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	61.2	66.1	54.6	59.8	3.5
15	73.6	74.7	71.5	73.5	.9
16	59.0	62.6	56.0	58.6	1.8
17	57.6	60.6	54.5	57.3	1.6
18	66.5	68.0	64.3	66.5	.9
19	60.8	62.3	58.2	60.7	1.0
20	73.9	75.3	71.9	73.8	1.0
21	70.7	72.2	68.5	70.5	1.0
22	65.4	66.9	64.0	65.3	.8
23	72.5	74.3	70.7	72.4	.9
24	65.7	67.2	64.1	65.6	.8
25	73.5	75.4	70.3	73.4	1.2
26	72.3	74.7	68.7	72.1	1.3
27	72.4	75.2	70.4	72.2	1.2
28	71.1	73.9	67.9	70.8	1.6
29	70.0	73.2	66.3	69.7	1.6
30	66.9	70.0	63.6	66.5	1.7
31	64.9	67.5	60.5	64.5	1.9
32	63.6	66.8	59.4	63.2	1.9
33	59.5	62.6	55.6	59.1	1.9
34	57.4	60.8	52.0	57.0	1.9
35	54.6	57.2	50.2	54.3	1.6
36	48.9	50.8	46.7	48.8	1.1
37	45.1	45.6	45.0	45.1	.2
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	77.1	79.1	74.7	77.0	1.0
DBD	81.0	82.5	79.0	80.9	.8
OASPL	82.0	83.1	81.1	82.0	.6
PNL	87.9	89.6	86.2	87.9	.7
PNLT	87.9	89.6	86.8	87.9	.7

45°
(Microphone Location
Relative to Helicopter)

TABLE B-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 101, 270 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	59.5	62.8	53.8	58.8	2.6
15	71.9	72.9	70.4	71.9	.6
16	57.1	58.2	55.3	57.0	.8
17	56.8	60.3	54.1	56.6	1.4
18	65.1	66.5	63.5	65.0	.7
19	59.8	62.0	58.3	59.7	1.1
20	78.2	79.8	77.3	78.1	.6
21	69.3	71.1	68.0	69.3	.7
22	61.5	63.5	59.8	61.4	.9
23	75.3	76.5	73.8	75.3	.7
24	63.9	65.5	62.4	63.8	.8
25	74.3	76.7	72.4	74.1	1.1
26	74.2	77.4	71.5	73.9	1.7
27	72.6	77.1	66.5	71.8	2.5
28	72.0	76.4	66.6	71.3	2.5
29	71.5	75.7	66.4	70.8	2.4
30	68.4	73.5	62.5	67.5	2.8
31	66.3	70.4	60.9	65.5	2.7
32	65.1	68.9	60.5	64.4	2.4
33	60.0	64.2	55.2	59.4	2.3
34	58.1	62.6	53.0	57.2	2.7
35	56.6	61.0	51.7	55.8	2.7
36	50.6	53.9	47.1	50.2	1.9
37	46.2	48.4	45.0	46.1	.9
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	78.3	82.0	75.3	77.9	1.6
DBD	82.0	85.0	79.4	81.7	1.6
OASPL	83.5	85.9	82.0	83.3	1.1
PNL	89.1	91.8	86.8	88.8	1.4
PNLT	89.1	91.8	86.8	88.9	1.4

0°
(Microphone Location
Relative to Helicopter)

TABLE 0-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 102, 315 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	58.8	63.0	52.8	57.8	3.0
15	70.7	72.6	68.5	70.5	1.1
16	56.1	58.6	53.3	55.9	1.3
17	55.1	57.2	53.0	55.0	1.1
18	65.8	68.1	62.6	65.4	1.8
19	59.1	60.4	57.7	59.0	.6
20	76.3	77.9	74.0	76.2	.9
21	70.7	71.9	68.7	70.7	.7
22	65.6	67.5	63.6	65.5	.9
23	74.4	75.4	73.1	74.3	.7
24	64.6	65.8	63.3	64.6	.6
25	74.3	75.7	66.5	73.7	2.6
26	75.5	76.9	71.2	75.2	1.6
27	73.7	75.8	69.5	73.4	1.7
28	69.5	71.9	67.7	69.4	1.1
29	68.7	70.2	65.9	68.6	1.1
30	72.9	75.9	66.2	72.3	2.4
31	71.6	74.1	63.7	70.9	2.7
32	67.3	69.6	61.4	66.9	2.0
33	61.9	64.3	57.1	61.6	1.8
34	59.0	62.8	54.4	58.4	2.2
35	55.4	58.7	51.8	55.1	1.6
36	50.7	52.8	47.3	50.6	1.3
37	46.1	47.6	45.0	46.1	.8
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	79.4	80.9	75.0	79.2	1.5
DBD	82.9	84.2	78.9	82.7	1.4
OASPL	83.5	84.6	81.1	83.4	.9
PNL	90.0	91.2	86.5	89.8	1.3
PNLT	90.5	92.0	86.5	90.3	1.5

315°
(Microphone Location
Relative to Helicopter)

TABLE B-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 94, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	62.7	66.9	58.4	62.2	2.0
15	76.2	78.7	72.1	75.8	2.0
16	65.9	67.5	63.9	65.7	1.0
17	71.0	72.8	68.1	70.9	1.0
18	71.9	73.5	70.0	71.8	.9
19	66.3	67.8	63.4	66.1	1.1
20	74.0	75.8	71.8	73.9	1.0
21	71.2	73.3	68.6	71.0	1.1
22	62.4	63.8	60.4	62.4	.8
23	64.1	66.4	59.7	63.7	2.0
24	55.1	56.5	52.9	55.0	.9
25	61.6	63.4	59.3	61.5	1.1
26	65.9	69.1	58.3	65.2	2.6
27	62.3	65.8	56.7	61.8	2.4
28	63.0	67.1	56.6	62.1	3.0
29	62.7	66.8	54.5	61.5	3.5
30	62.3	66.6	52.9	61.0	3.8
31	61.4	65.4	51.9	59.9	3.8
32	61.1	64.9	51.4	59.5	4.0
33	58.6	62.9	48.6	56.8	4.4
34	55.6	59.3	45.7	53.9	4.2
35	53.2	57.4	45.0	51.8	3.7
36	47.9	51.1	45.0	47.4	2.2
37	45.5	47.9	45.0	45.4	.7
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	71.0	74.4	65.2	70.2	2.8
DBD	76.3	79.2	72.5	75.8	2.2
OASPL	80.3	81.5	79.2	80.3	.6
PNL	83.6	86.2	80.1	83.2	2.0
PNLT	83.6	86.2	80.1	83.2	2.0

90°
(Microphone Location
Relative to Helicopter)

TABLE B-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 95, 45 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	58.5	60.2	56.7	58.5	.8
15	76.5	77.1	76.1	76.5	.2
16	64.7	67.9	61.1	64.3	1.7
17	67.4	69.1	65.1	67.3	.9
18	71.5	72.8	69.7	71.4	.8
19	64.4	66.7	62.1	64.3	1.0
20	75.8	76.3	74.7	75.7	.5
21	69.0	71.0	67.3	68.9	1.0
22	60.4	62.0	58.5	60.3	.9
23	63.6	65.6	61.3	63.5	1.0
24	55.7	56.7	54.0	55.6	.8
25	64.4	66.3	62.0	64.2	1.2
26	61.8	64.2	56.3	61.3	2.1
27	61.5	63.7	57.0	61.2	1.7
28	62.0	64.9	56.5	61.4	2.4
29	62.9	66.5	57.7	62.3	2.3
30	62.4	64.8	57.5	62.0	2.1
31	61.9	64.1	56.9	61.5	2.1
32	63.1	65.0	58.1	62.8	1.8
33	58.9	60.6	55.3	58.6	1.9
34	55.6	57.7	51.5	55.1	2.1
35	52.9	55.0	49.3	52.6	1.8
36	48.1	50.0	45.2	47.8	1.7
37	45.2	45.5	45.0	45.2	.2
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	71.3	73.1	67.3	71.0	1.8
DBD	76.2	77.3	73.7	76.0	1.2
OASPL	80.2	81.0	79.4	80.1	.4
PNL	84.0	85.6	81.9	83.9	1.1
PNLT	84.5	86.1	82.0	84.4	1.1

45°
*(Microphone Location
Relative to Helicopter)*

TABLE B-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 97, 90 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	62.2	65.1	59.0	61.9	1.5
15	74.9	76.4	74.0	74.9	.5
16	65.4	69.3	61.4	64.8	2.3
17	67.0	71.3	62.0	66.4	2.4
18	69.5	70.8	67.9	69.4	.8
19	67.2	72.3	61.9	66.1	3.0
20	76.1	76.9	75.0	76.1	.5
21	69.2	70.7	67.5	69.1	.8
22	64.8	69.4	61.0	64.4	1.8
23	66.0	69.0	62.7	65.7	1.6
24	61.0	65.7	56.0	60.3	2.4
25	65.6	68.3	61.5	65.2	1.9
26	63.3	66.5	58.6	62.8	2.2
27	62.3	66.7	57.1	61.6	2.6
28	60.9	64.4	54.0	59.9	3.2
29	61.4	66.3	54.0	60.0	3.8
30	60.7	65.9	53.3	59.3	3.7
31	59.5	64.2	52.9	58.4	3.4
32	59.8	64.6	53.6	58.9	3.0
33	57.0	61.6	50.8	56.1	2.9
34	53.7	59.4	48.1	52.6	3.0
35	52.3	57.8	47.6	51.5	2.6
36	47.4	51.7	45.0	47.1	1.6
37	45.1	46.5	45.0	45.1	.4
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	70.4	73.4	65.4	69.8	2.4
DBD	75.9	78.5	72.8	75.6	1.6
OASPL	79.9	80.9	78.8	79.8	.6
PNL	83.5	85.6	81.2	83.3	1.2
PNLT	83.5	85.6	81.2	83.3	1.2

0°
(Microphone Location
Relative to Helicopter)

TABLE B-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 98, 135 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	62.3	68.8	56.1	60.8	3.5
15	70.9	72.4	68.9	70.8	.9
16	58.7	60.7	56.9	58.6	1.2
17	57.1	59.6	54.8	57.0	1.1
18	67.2	68.6	63.5	67.1	1.2
19	59.7	61.2	57.4	59.6	1.0
20	75.5	77.6	72.7	75.3	1.4
21	66.6	69.6	64.7	66.5	1.2
22	59.1	61.0	56.5	58.9	1.2
23	61.1	65.0	57.8	60.7	1.8
24	53.8	56.4	51.5	53.5	1.4
25	62.9	65.6	60.3	62.6	1.4
26	60.7	63.4	57.7	60.5	1.5
27	61.7	64.0	57.8	61.4	1.6
28	61.5	63.7	57.9	61.2	1.5
29	61.3	64.5	57.5	61.0	1.7
30	60.4	63.1	56.9	60.1	1.7
31	60.0	62.4	56.7	59.8	1.4
32	59.5	62.2	56.4	59.3	1.4
33	57.0	60.6	52.2	56.6	1.9
34	53.4	57.1	48.2	52.8	2.2
35	51.4	55.4	47.3	50.8	2.3
36	47.0	50.1	45.0	46.7	1.6
37	45.1	45.7	45.0	45.1	.2
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	69.6	71.7	67.0	69.5	1.3
DBD	74.6	76.4	72.2	74.5	1.1
OASPL	78.0	79.3	76.3	77.9	.8
PNL	82.3	83.9	80.2	82.2	1.0
PNLT	82.3	83.9	80.2	82.2	1.0

315°
(Microphone Location
Relative to Helicopter)

TABLE B-VII
5 FOOT HOVER TEST
1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 99, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE. OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	56.1	58.1	54.1	56.0	1.0
15	73.4	74.8	71.6	73.3	1.0
16	57.8	59.0	56.3	57.7	.6
17	55.6	57.9	53.0	55.5	1.0
18	66.0	68.8	62.2	65.6	1.9
19	60.3	62.0	58.0	60.2	.9
20	67.0	68.6	65.5	67.0	.8
21	69.9	71.3	68.6	69.9	.7
22	62.6	64.3	61.3	62.6	.8
23	61.6	64.3	57.7	61.2	1.8
24	55.3	57.2	51.7	55.1	1.5
25	61.8	64.7	58.4	61.6	1.6
26	62.2	64.5	57.5	61.9	1.7
27	63.2	65.0	58.3	62.9	1.8
28	63.5	66.1	58.1	63.1	1.9
29	63.8	66.9	58.5	63.3	2.2
30	63.3	66.0	57.7	62.8	2.2
31	61.4	64.3	56.7	60.8	2.3
32	60.8	65.1	55.3	60.0	2.7
33	59.1	63.6	53.0	58.2	2.9
34	55.4	60.5	48.6	54.4	3.1
35	52.7	57.6	46.9	51.8	2.8
36	48.2	52.6	45.0	47.6	2.2
37	45.3	47.6	45.0	45.3	.7
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	71.2	74.4	66.7	70.8	2.0
DBD	75.3	78.5	71.3	74.9	1.9
OASPL	77.0	78.3	75.3	77.0	.8
PNL	82.7	85.7	79.3	82.3	1.8
PNLT	82.7	85.7	79.3	82.3	1.8

270°
(Microphone Location
Relative to Helicopter)

TABLE B-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 100, 225 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	57.8	62.1	54.7	57.4	1.8
15	73.9	76.3	70.6	73.5	2.0
16	58.3	59.9	55.2	58.1	1.2
17	56.5	59.0	54.2	56.3	1.4
18	67.3	68.9	65.1	67.1	1.3
19	62.4	63.8	61.2	62.3	.7
20	72.5	75.0	66.9	71.8	2.7
21	68.1	69.5	65.7	68.0	1.0
22	59.0	60.4	58.1	58.9	.7
23	60.9	64.4	58.3	60.5	1.7
24	58.1	60.7	55.3	57.9	1.5
25	64.8	66.8	62.2	64.6	1.2
26	65.9	68.5	61.3	65.5	2.0
27	66.8	69.9	63.1	66.4	1.9
28	67.5	69.9	65.0	67.3	1.3
29	68.0	70.8	65.1	67.7	1.5
30	66.9	68.7	64.0	66.7	1.3
31	64.9	66.7	62.0	64.8	1.2
32	63.6	65.8	59.7	63.4	1.5
33	61.6	64.6	57.9	61.3	1.6
34	56.7	60.5	53.2	56.4	1.7
35	53.4	57.1	49.4	53.1	1.8
36	48.6	51.9	45.6	48.3	1.6
37	45.5	47.1	45.0	45.5	.7
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	74.3	76.4	71.6	74.1	1.2
DBD	77.8	80.1	74.6	77.7	1.2
OASPL	79.0	80.7	76.6	78.9	1.1
PNL	85.1	87.3	82.1	85.0	1.1
PNLT	85.1	87.3	82.1	85.0	1.1

225°
*(Microphone Location
Relative to Helicopter)*

TABLE B-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 101, 270 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	56.1	58.1	55.0	56.1	.9
15	74.9	75.4	74.3	74.9	.3
16	57.6	58.3	56.4	57.6	.5
17	56.0	57.6	54.7	55.9	.8
18	66.3	67.6	64.7	66.2	.7
19	62.2	63.9	60.6	62.1	.8
20	77.0	77.8	76.3	77.0	.4
21	73.6	75.0	71.5	73.5	.9
22	64.8	66.5	62.6	64.7	1.0
23	63.3	64.7	60.2	63.1	1.3
24	54.1	55.6	52.1	54.0	1.0
25	63.9	66.2	61.6	63.7	1.3
26	65.5	67.8	62.9	65.2	1.6
27	62.6	65.7	58.4	62.2	1.8
28	62.5	65.7	59.3	62.1	1.8
29	60.5	65.1	56.4	59.8	2.3
30	59.4	64.5	55.2	58.6	2.3
31	58.4	63.1	55.1	57.8	2.2
32	58.2	62.9	54.1	57.4	2.5
33	55.2	59.6	51.0	54.6	2.2
34	52.5	57.0	47.9	51.9	2.2
35	50.2	54.4	46.1	49.7	1.9
36	46.2	48.8	45.0	46.1	1.0
37	45.2	46.2	45.0	45.1	.3
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	69.9	73.0	67.6	69.6	1.5
DBD	75.7	77.9	74.4	75.6	1.0
OASPL	80.1	80.9	79.2	80.0	.4
PNL	83.4	85.3	82.3	83.3	.8
PNLT	83.4	85.3	82.3	83.3	.8

180°

(Microphone Location
Relative to Helicopter)

TABLE B-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

HUGHES 500 C

OCTOBER 28 1976

EVENT 102, 315 DEGREES, MICROPHONE 150 DEGREES EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	60.3	65.7	52.5	58.6	3.9
15	71.4	72.6	69.7	71.3	.7
16	57.1	62.5	53.9	56.6	1.8
17	55.6	59.6	53.6	55.4	1.4
18	66.5	67.3	65.5	66.5	.4
19	60.3	62.3	58.6	60.2	.9
20	72.1	75.2	69.2	71.7	1.7
21	71.1	72.4	69.3	71.0	.9
22	61.6	64.5	59.3	61.5	1.1
23	58.5	60.1	55.7	58.4	1.2
24	54.4	56.1	52.0	54.3	1.1
25	66.0	67.5	63.9	65.9	.9
26	64.2	66.4	62.1	64.1	1.1
27	63.1	64.7	59.9	63.1	.8
28	64.5	66.3	59.3	64.2	1.6
29	64.2	66.2	58.7	63.9	1.8
30	62.5	64.5	57.0	62.2	1.9
31	60.5	62.7	56.3	60.2	1.7
32	59.5	61.4	54.0	59.2	1.9
33	56.2	58.3	50.6	55.9	1.7
34	53.2	55.3	48.2	52.9	1.6
35	50.7	53.0	46.8	50.5	1.4
36	46.2	47.9	45.0	46.1	.8
37	45.2	46.7	45.0	45.1	.4
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	71.1	72.7	67.4	71.0	1.3
DBD	75.5	76.7	72.7	75.3	1.0
OASPL	77.9	78.7	76.5	77.9	.5
PNL	82.4	83.6	80.2	82.3	.9
PNLT	82.4	83.6	80.2	82.3	.9

135°

(Microphone Location
Relative to Helicopter)

TABLE B-VIII
Helicopter Noise Level Data
HUGHES 500C OCTOBER 28, 1976

HELICOPTER OPERATION	RUN NUMBER	max RMS Noise Level - dBA re 20 μ Pa			
		MICROPHONE OFFSET TO THE WEST		MICROPHONE OFFSET TO THE EAST	
		150 M	75 M	75 M	150 M
5 ft. HOVER 0°	94 103	78.5 76.5	82.0 80.5	82.3 83.3	74.3 74.0
		(270°)		(90°)	
5 ft. HOVER 45°	95	87.3	89.8	82.5	73.0
		(225°)		(45°)	
5 ft. HOVER 90°	97	81.3	84.0	83.0	76.3
		(180°)		(0°)	
5 ft. HOVER 135°	98	86.5	88.0	83.8	71.5
		(135°)		(315°)	
5 ft. HOVER 180°	99	83.3	85.3	86.0	78.8
		(90°)		(270°)	
5 ft. HOVER 225°	100	78.3	81.8	85.5	76.3
		(45°)		(225°)	
5 ft. HOVER 270°	101	84.3	87.3	82.0	73.5
		(0°)		(180°)	
5 ft. HOVER 315°	102	84.3	87.3	83.3	74.0
		(315°)		(135°)	
500 ft HOVER					
500 ft HOVER					

TABLE B-VIII
Helicopter Noise Level Data

HUGHES 500 C

OCTOBER 28, 1976

MAX RMS Noise Level - dBA @ 20 m Pa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M		MICROPHONE OFFSET TO THE EAST 150M	
		OVER Concrete	CENTER LINE OVER Concrete	CENTER LINE OVER Grass	OVER Concrete
3° GLIDE SLOPE	56	73.3	77.5	76.5	72.0
	57	77.3	84.0	82.0	74.0
6° GLIDE SLOPE	65	75.0	80.3	77.0	72.0
9° GLIDE SLOPE	82	75.3	80.8	78.8	74.3
	83	74.8	79.0	77.5	74.5
69 MPH LEVEL FLY OVER	58	72.5	77.0	73.8	72.3
	59	72.3	76.0	74.3	72.5
110 MPH LEVEL FLY OVER	60	75.5	76.5	74.8	74.3
	61	77.3	77.3	74.5	75.8
130 MPH LEVEL FLY OVER	110	77.5	79.0	77.5	77.5

TABLE G-VIII
Helicopter Noise Level Data

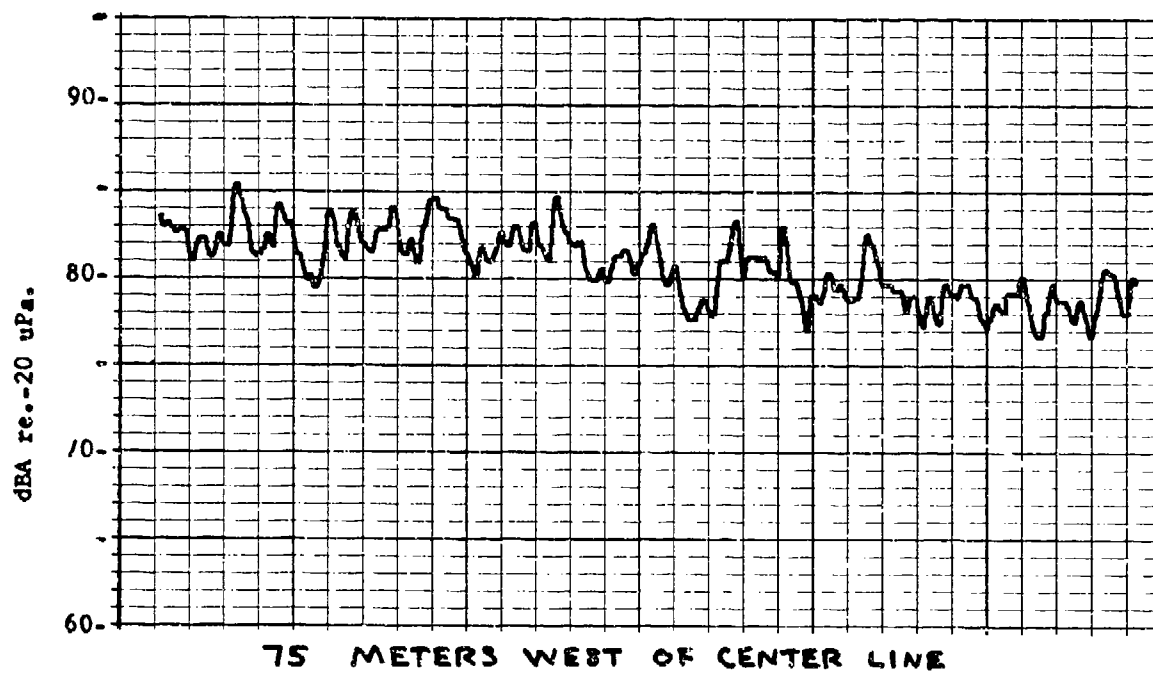
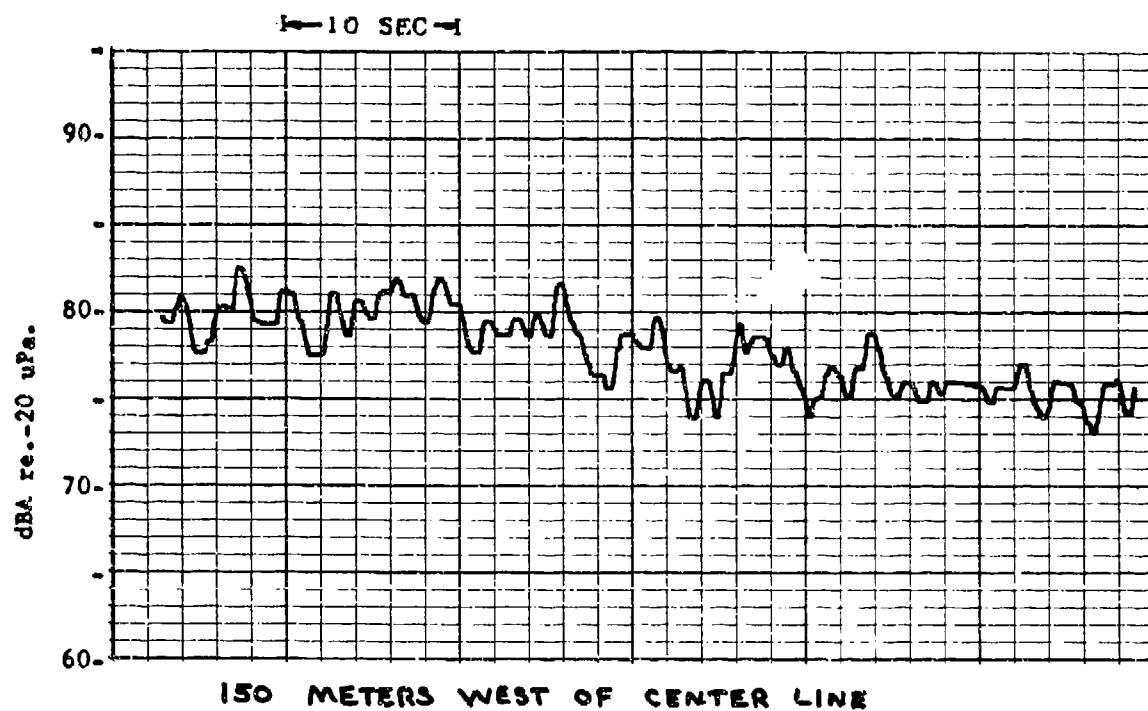
HUGHES 500C

OCTOBER 28, 1976

max. RMS Noise Level - JBA at 20 m Pa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST		MICROPHONE OFFSET TO THE EAST	
		150M	CENTER LINE	CENTER LINE	150M
		OVER Concrete	OVER Concrete	OVER Grass	OVER Concrete
144 MPH LEVEL FLYOVER	106	81.0	79.5	79.8	80.3
	107	78.8	77.3	76.5	78.5
150 MPH LEVEL FLYOVER	108	81.8	81.0	80.0	83.3
	109	79.8	79.3	77.3	82.5
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					

TABLE B-IX

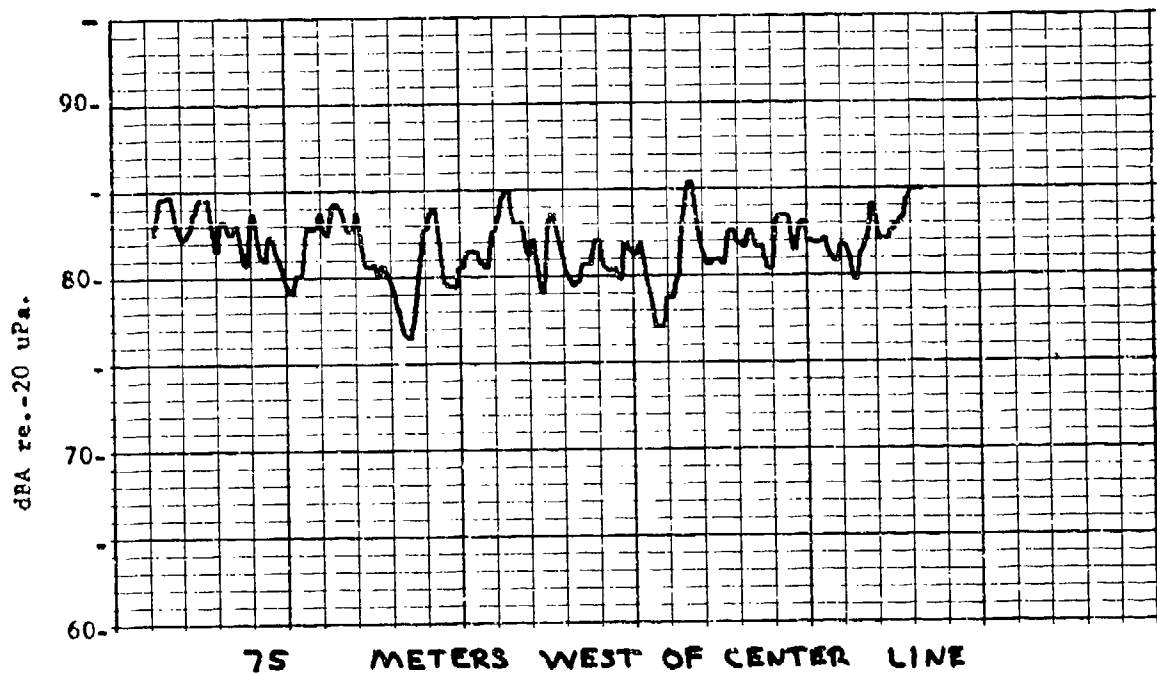
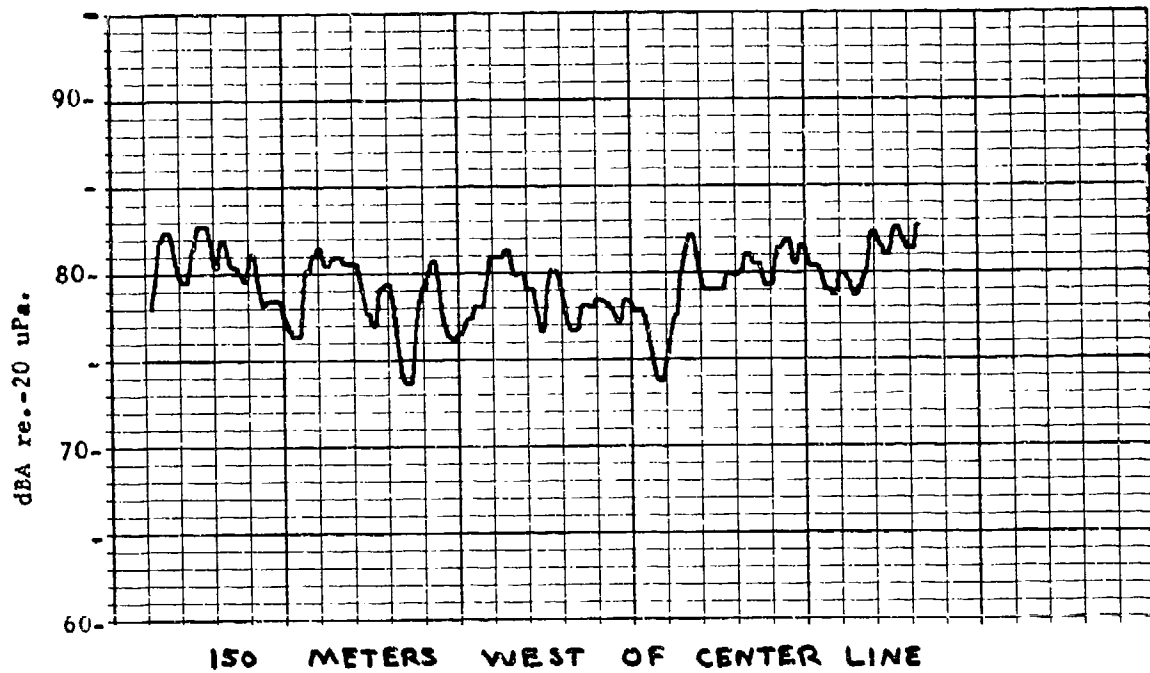


NOISE LEVEL TIME HISTORIES
 HUGHES 500C HELICOPTER
 90° HOVER - 5 FT.

RUN 97

TABLE B-IX

10 SEC

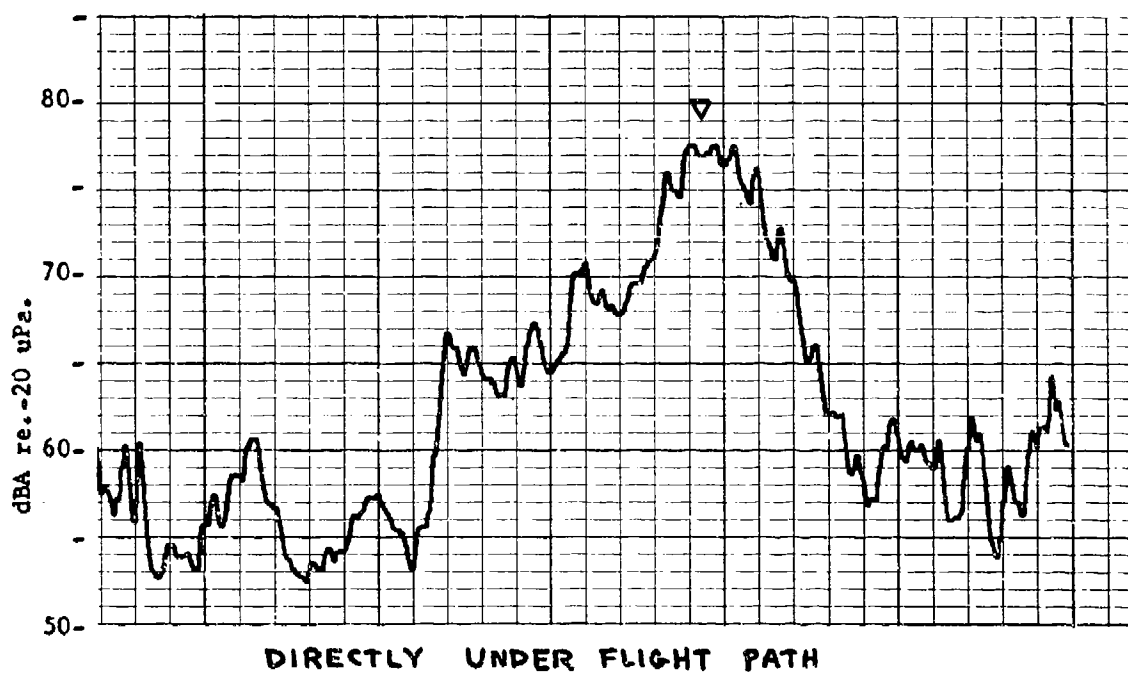
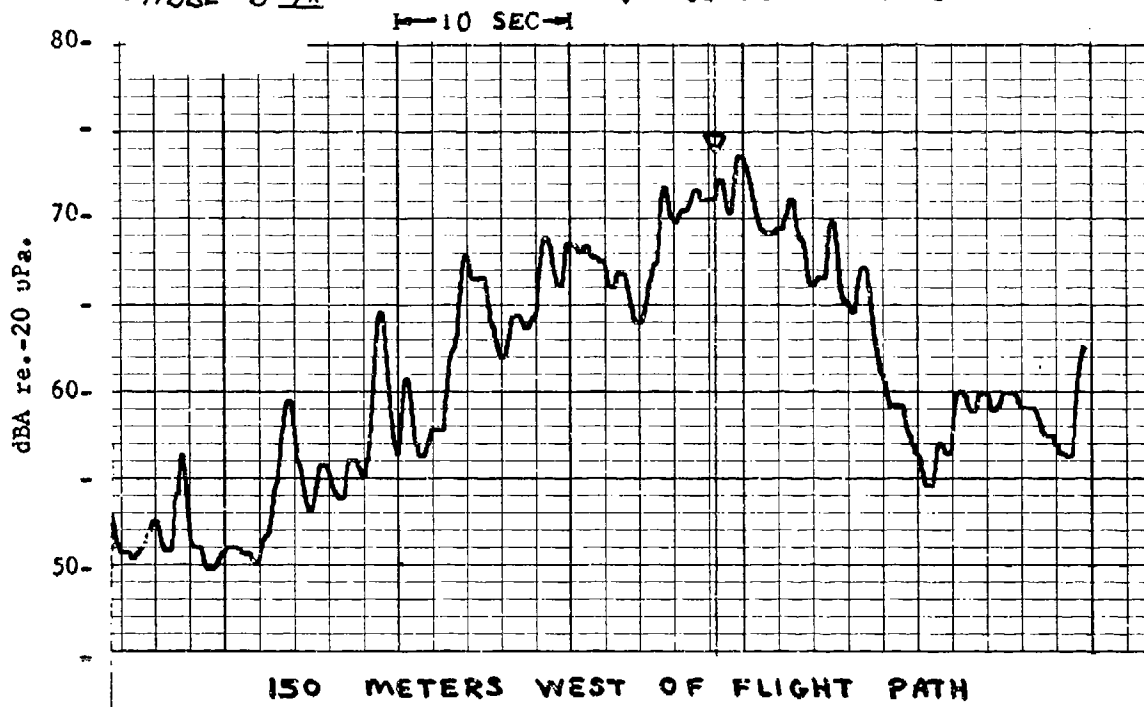


NOISE LEVEL TIME HISTORIES
HUGHES 500C HELICOPTER
180° HOVER - 5 FT.

RUN 99

TABLE B-IX

▽ = CENTER CROSSING

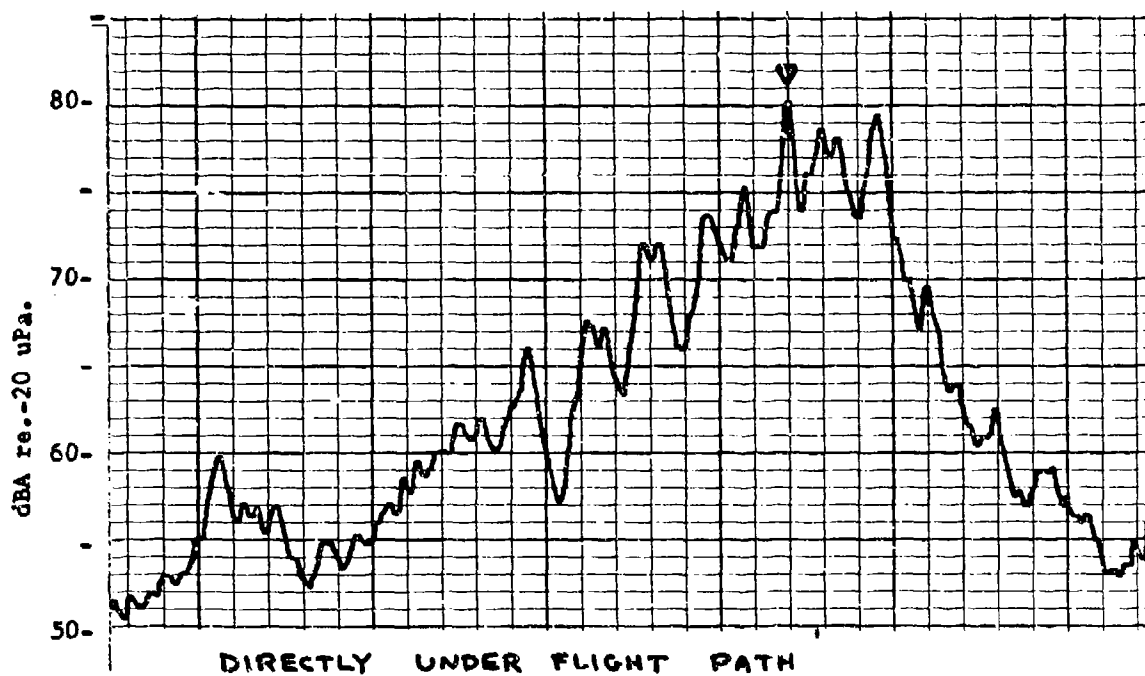
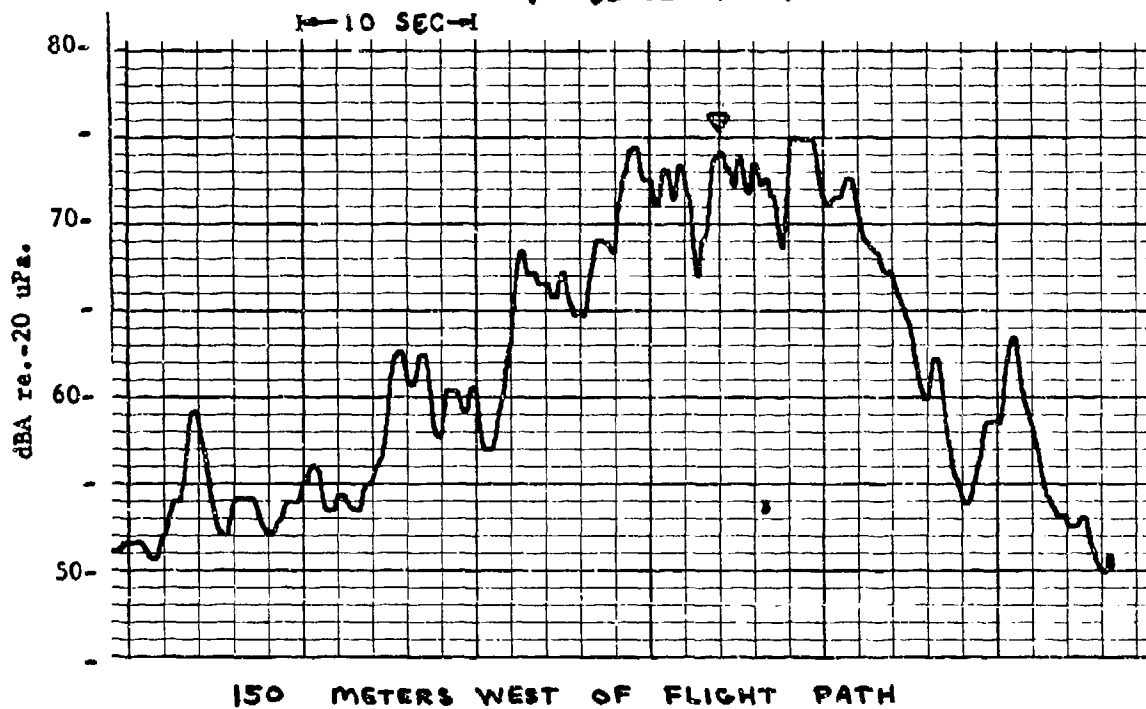


NOISE LEVEL TIME HISTORIES
HUGHES 500 C HELICOPTER
3° APPROACH

RUN 56

TABLE B-IX

▽ = CENTER CROSSING



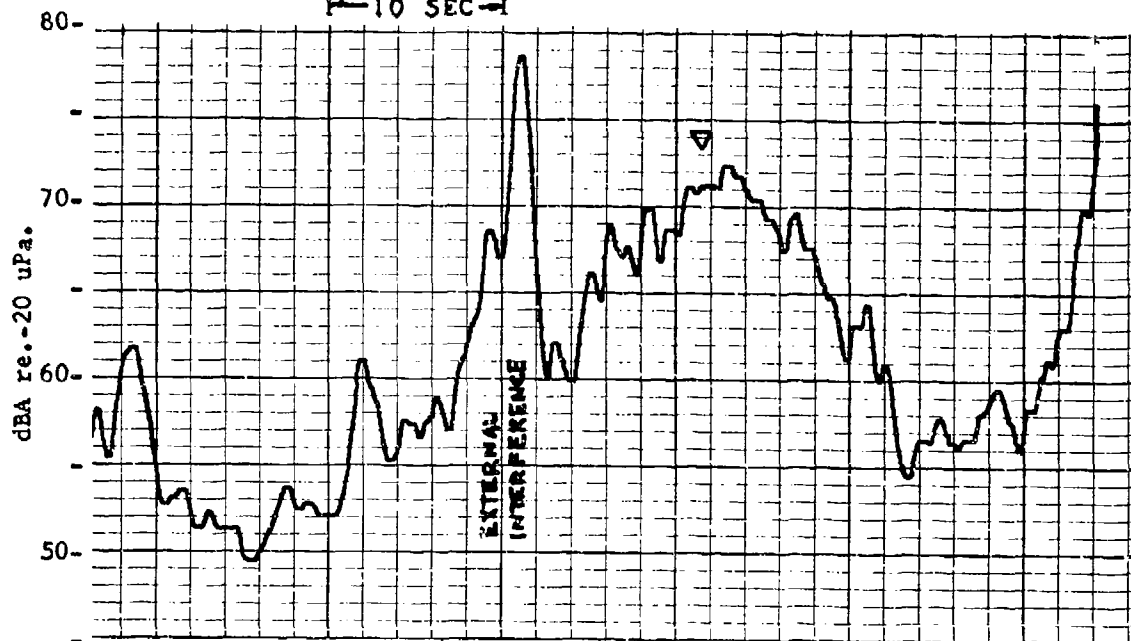
NOISE LEVEL TIME HISTORIES
HUGHES 500C HELICOPTER
6° APPROACH

RUN 65

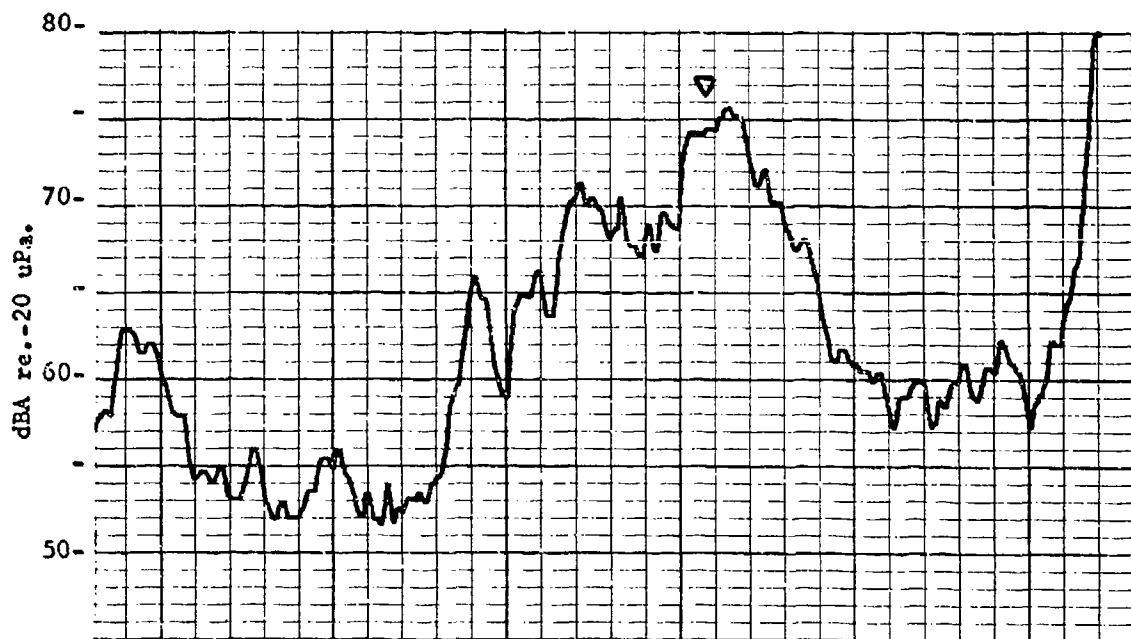
TABLE B-IX

▽ = CENTER CROSSING

10 SEC



150 METERS WEST OF FLIGHT PATH



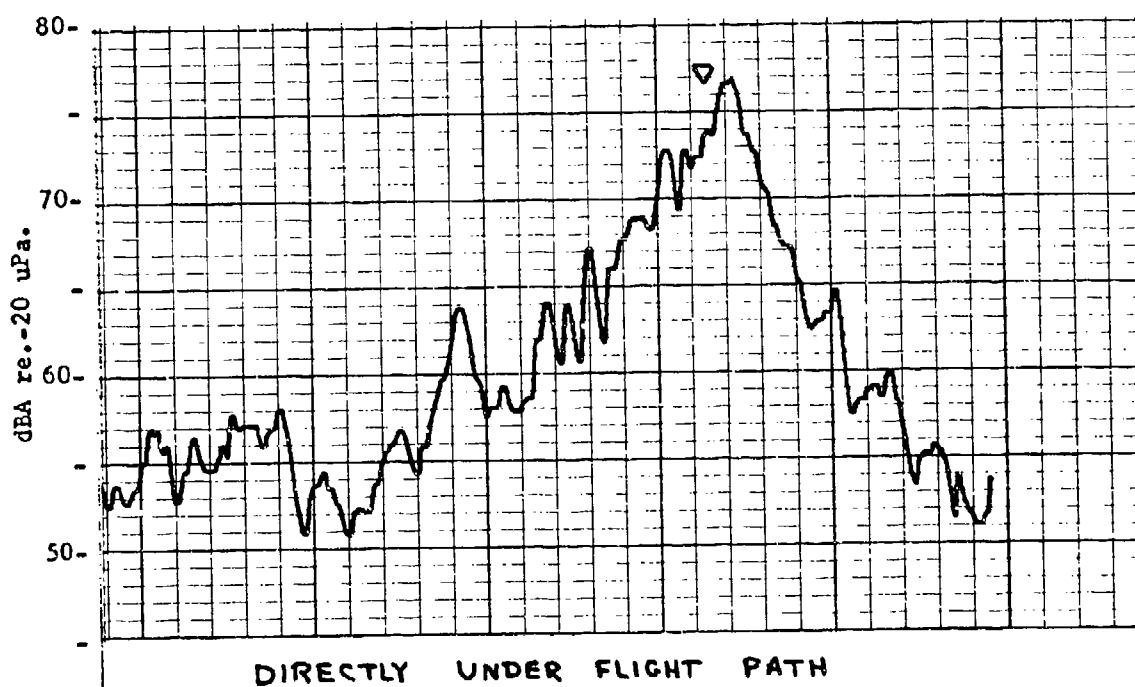
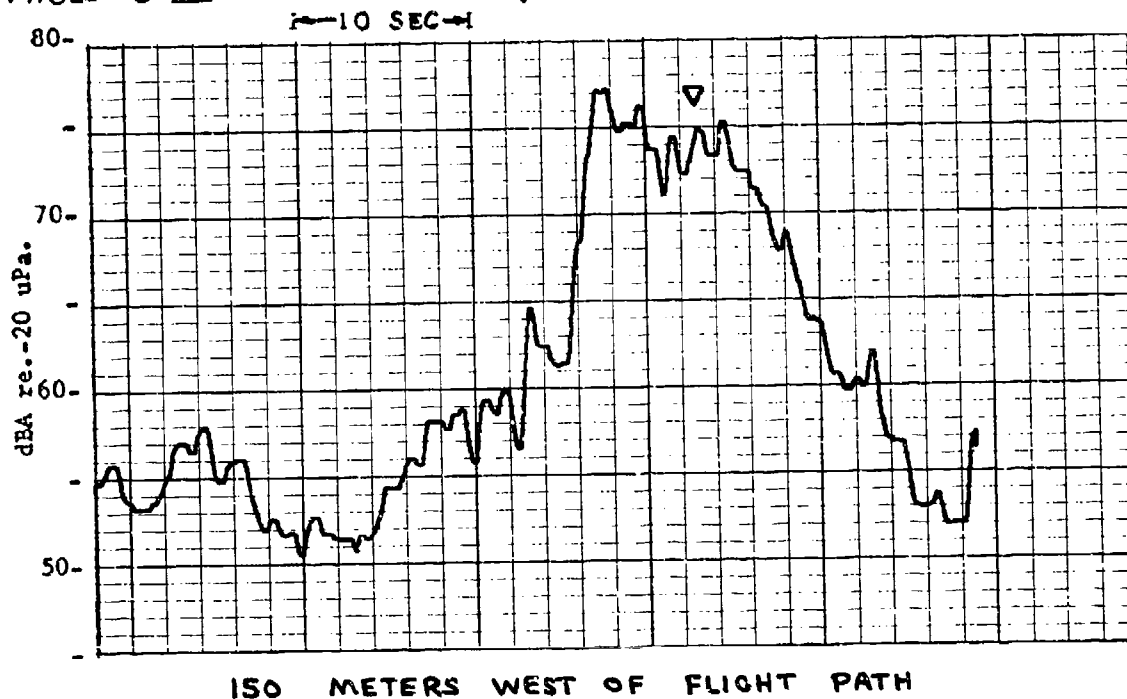
DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
HUGHES 500 C HELICOPTER
LEVEL FLYOVER - 69 MPH

RUN 59

TABLE B-IX

▽ = CENTER CROSSING

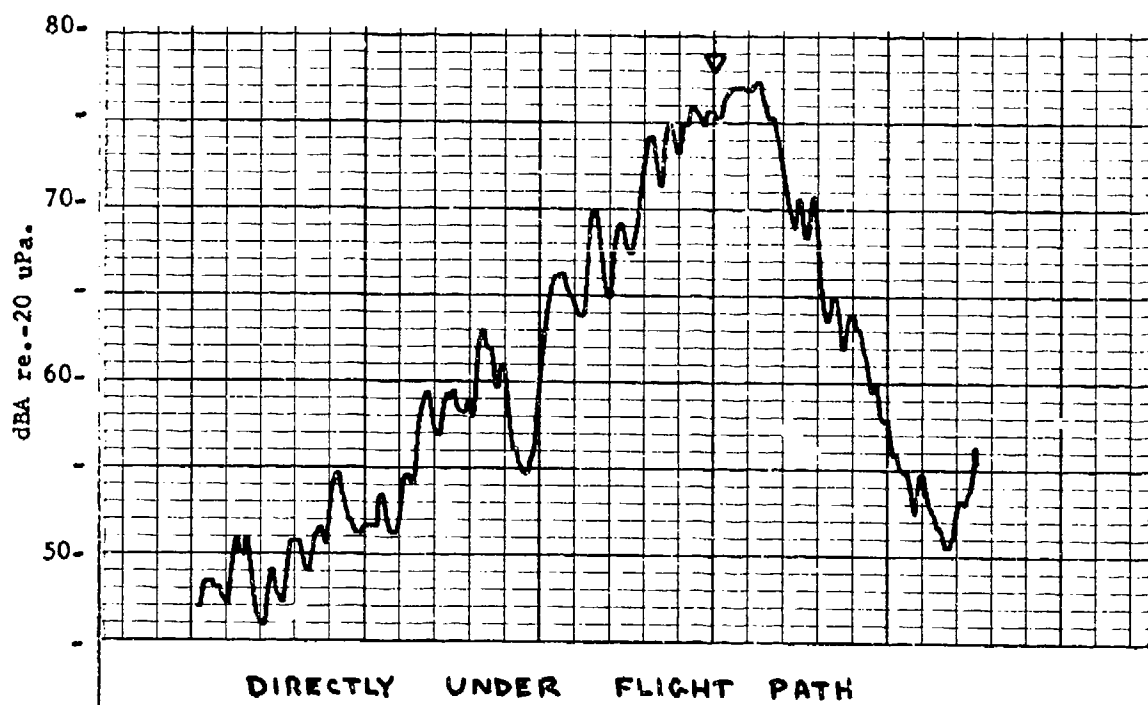
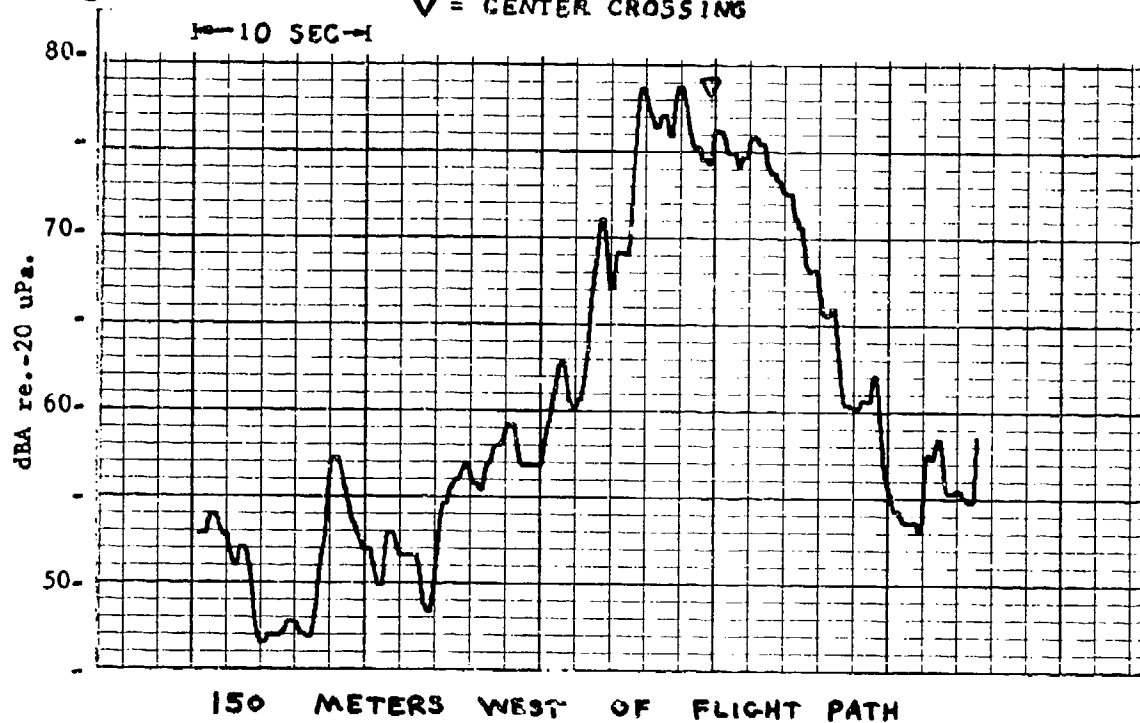


NOISE LEVEL TIME HISTORIES
HUGHES 500 C HELICOPTER
LEVEL FLYOVER - 110 MPH

RUN 61

TABLE B-IX

▽ = CENTER CROSSING

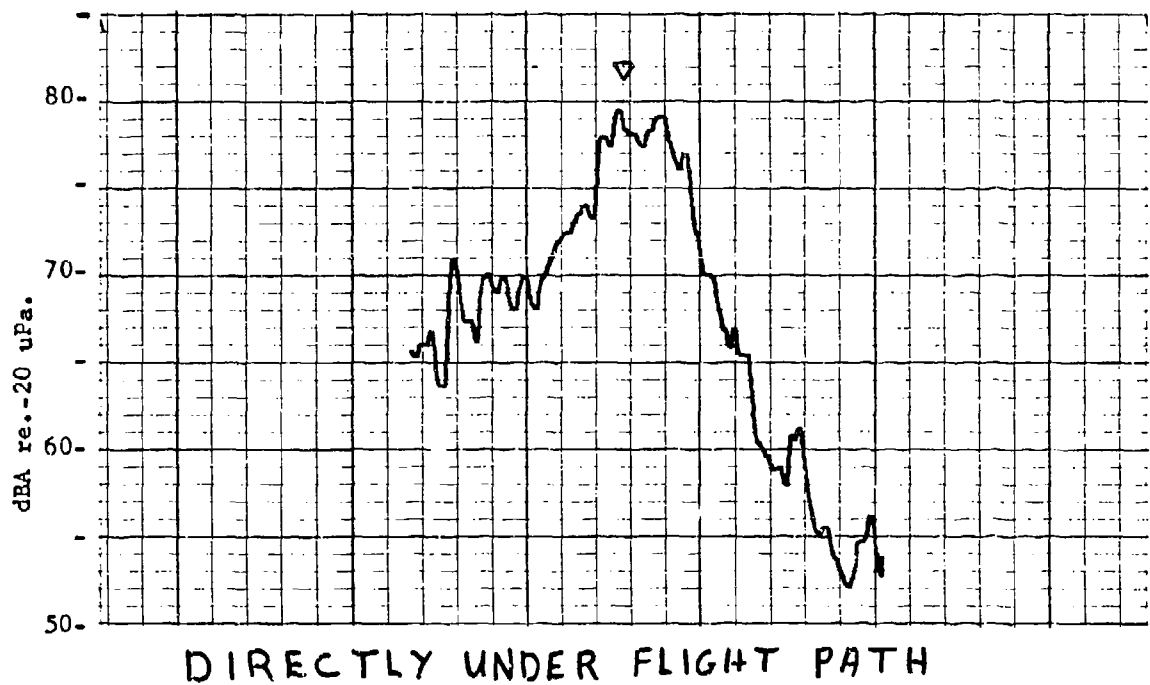
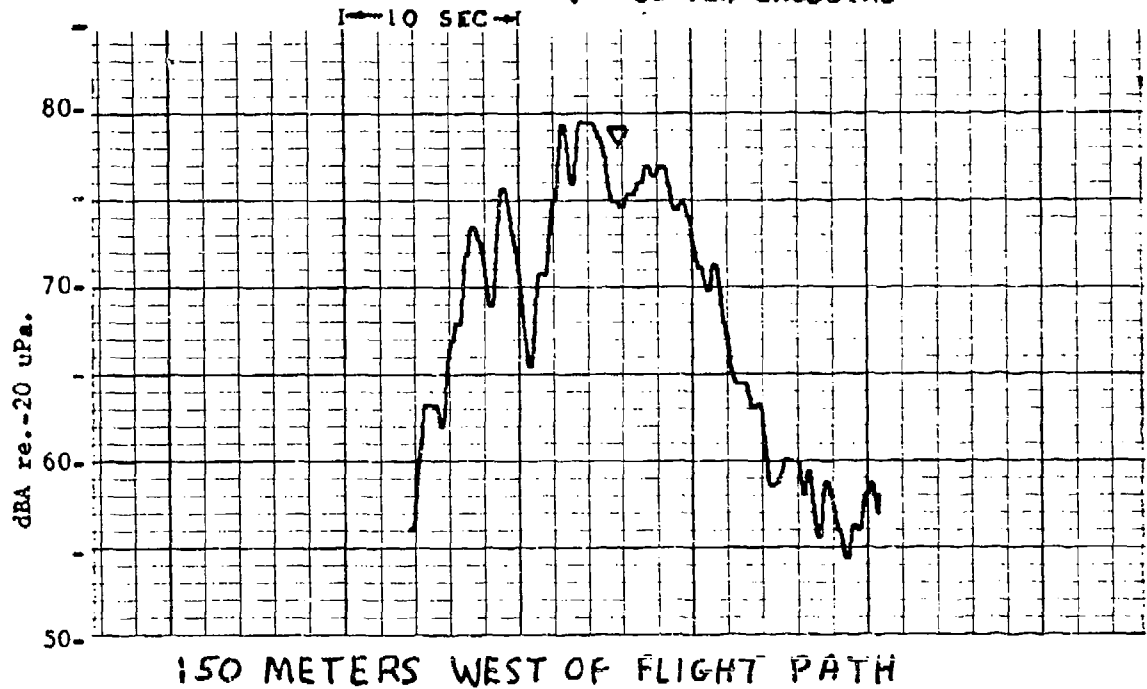


NOISE LEVEL TIME HISTORIES
 HUGHES 500C HELICOPTER
 LEVEL FLYOVER - 144 MPH

RUN 107

TABLE B-IX

▽ = CENTER CROSSING



NOISE LEVEL TIME HISTORIES
HUGHES 500-C HELICOPTER
LEVEL FLYOVER - 150 MPH

RUN 109

DATA TABLE C

BELL 47G

TEST DATE: 10-5-76

TEST SITE: DULLES AIRPORT

SECTION - C	CONTENT	PAGE #
I	RUN LIST	208
II	GROUND AND FLIGHT LOG DATA	211
III	METEOROLOGICAL DATA	213
IV	LEVEL FLYOVER AND APPROACH NOISE DATA	214
V	TIME HISTORIES	216
VI	1/3-OCTAVE BAND SPECTRA--FLYOVER AND APPROACH	239
VII	1/3-OCTAVE BAND SPECTRA--5 FOOT HOVER	262
VIII	MAXIMUM dBA NOISE LEVEL (ALL RUNS)	283
IX	SELECTED dBA TIME HISTORIES--GRAPHIC PLOTS	286

THE NOISE LEVELS PRESENTED IN SECTIONS IV, V AND VI HAVE BEEN TABULATED FOR THE SELECTED RUNS AND MICROPHONE LOCATIONS INDICATED ON THE FOLLOWING PAGE.

TABLE C-I

LIST OF RUNS SELECTED FOR ANALYSIS

RUN#	TEST CONDITION	MICROPHONE LOCATION			
		WEST		EAST	
		150 m SIDELINE	CENTER LINE	CENTER LINE	150m SIDELINE
19	6° Approach 60 mph	X		X	X
26	Level Flyover 60 mph	X		X	X
28	↓			X	
29				X	
30		X		X	X
31		X		X	X
33		X		X	X
36	↓ 80 mph	X		X	X
41	9° Approach 60 mph	X		X	X
Microphone Locations		Over Transpo Site Surface	Over Plywood	Over Transpo Site Surface	Over Transpo Site Surface

GENERAL COMMENTS

- o No data was taken for the 3° approach condition.
- o The weather conditions were excellent with almost no wind.

TABLE C-II

Helicopter Model: Bell 47-G

Registration	Number :
--------------	----------

Test Date: Oct. 5, 1976

[illegible]

TABLE C-II

Ground and Flight Log Data

Helicopter Model: Bell 47-G

Registration Number: 23983

Test Date: Oct. 5, 1976

Run	Time	Target Conditions		Actual Conditions					Ground Weather (10 ft.)				Comments			
		Type	Velocity	Altitude ft.	dBA	Heading	A/S	R/D	Mp or Torque	Altitude ft.	RPM	OAT		Temp	RH	Wind Speed
27	9:29	Level Flower	68 mph	500 ft.	78.5	N	68 mph	0	23"	5-10 ft.						Abort Audible interference at very end of run
28	9:30				79	S	↓	0	↓							
29	9:32				79	N	↓	0	↓							
30	9:33		25 mph		77	S	25 mph	0	28"							Abort Audible interference at very end of run
31	9:35				78	N	50	0	28"							
32	9:36				missed	S	—	0	28"							
33	9:37				—	N	71	0	28"							
34	9:39				79	S	25	0	25							
35	9:40				—	N	88 mph	0	24"							
36	9:42		88 mph		78.5	N	88 mph	0	24"							Abort Abort Abort
37	9:43				—	S	↓	0	↓							
38	9:44				popped	N	↓	0	↓							
39	9:45				81	S	↓	0	↓							
40	9:46															
41	9:56	9° App.	60 mph	400 ft.	80	S	60 mph	—	16"	400 ft.						Slightly High coming towards microphones then late
42	9:58				82.5	↓	55 mph	—	16"		↓					
43	10:00				78	↓	60 mph	—	15"		↓					

TABLE C-III
 METEOROLOGICAL DATA
 DULLES INTERNATIONAL AIRPORT
 OCTOBER 5, 1976

TIME (Hours)	TEMP (°F)	BAR. PRESS. (mmHg)	REL. HUM. (%)	WIND SPEED (mph)	WIND DIRECTION (Degrees)	REMARKS
0815	53	764	86	3-4	10	Sky-Clear
0830	54		86	2-3	20	
0845	55		84	2-4	340	
0900	56		84	5-6	350	
0915	57	764	83	4-6	5	
0930	59		80	4-5	0	
0945	59		79	3-4	25	
1000	60		80	3-4	5	
1015	60		78	2	10	

TABLE C-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

BELL 47 G

OCTOBER 5, 1976

MICROPHONE OFFSET 150 METERS WEST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
19	89.3	76.2	81.1	83.2	88.4	88.4	72.5	27.5	33.5	.0
26	88.6	75.0	80.1	81.5	87.3	88.2	69.1	50.0	38.5	1.3
30	87.3	74.2	79.7	80.3	87.1	87.1	68.7	41.0	40.5	.0
31	89.7	76.3	81.8	81.8	88.6	89.6	72.4	28.0	28.0	1.4
33	90.7	76.8	82.8	82.5	89.6	90.4	73.5	28.0	27.0	1.2
36	90.1	76.4	82.0	81.9	89.5	89.6	71.9	36.0	34.5	1.2
41	87.4	72.5	77.1	79.2	84.6	85.2	68.5	38.5	40.0	1.4

MICROPHONE OFFSET 150 METERS EAST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
19	86.8	73.3	88.9	79.2	86.4	86.4	69.3	27.0	34.5	.0
26	87.6	73.5	89.6	79.1	87.0	87.0	69.7	32.0	28.5	.0
30	86.9	73.6	79.5	79.2	86.7	86.7	69.1	32.5	32.5	.0
31	89.3	74.9	80.1	80.8	87.1	88.1	71.7	32.0	31.5	1.1
33	90.6	77.0	82.4	82.0	89.6	89.6	73.3	28.5	29.5	.0
36	89.6	75.9	81.2	81.5	88.2	88.2	72.6	30.5	31.0	.0
41	87.4	74.1	79.6	80.8	86.8	87.6	69.1	32.5	33.0	1.0

TABLE C-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

BELL 47 G

OCTOBER 5, 1976

CENTERLINE MICROPHONE (SOFT SITE)
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
19	91.0	78.5	84.3	86.3	91.6	91.6	75.2	19.0	18.5	.0
26	89.6	76.3	83.3	83.6	89.9	90.5	73.2	21.5	20.0	1.2
28	90.7	78.5	84.8	84.2	92.1	92.1	75.2	17.5	15.5	.0
29	91.6	78.5	84.9	84.4	91.9	91.9	74.8	25.5	22.5	.0
30	89.2	75.9	82.4	82.9	89.3	90.7	70.5	36.0	21.0	1.9
31	91.3	77.7	83.5	83.3	90.7	91.9	74.0	25.0	25.5	1.5
33	91.6	78.9	84.8	84.2	92.0	92.0	75.9	19.5	19.5	.0
36	90.7	77.8	84.0	83.5	91.2	91.2	74.5	22.0	22.0	.0
41	88.5	78.5	84.3	85.4	90.8	90.8	73.7	13.5	13.5	.0

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 19, 6 DEGREE APPROACH, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	63.8	67.9	70.5	75.4	76.6	11.6	4.1
3	64.3	68.5	70.9	76.4	76.4	12.1	4.2
5	63.8	67.7	70.3	75.6	75.6	11.8	3.9
7	65.0	68.8	70.9	76.4	76.4	11.4	3.8
9	69.0	72.4	74.0	80.1	81.5	11.1	3.4
11	71.3	74.6	75.0	81.5	81.5	10.2	3.3
13	72.9	76.0	75.9	82.8	84.2	9.9	3.1
15	71.6	75.0	74.5	81.7	83.2	10.1	3.4
17	73.6	77.3	76.3	83.1	85.2	9.5	3.7
19	71.5	75.6	75.5	82.2	84.2	10.7	4.1
21	70.7	74.8	75.2	82.4	82.4	11.7	4.1
23	74.2	78.2	76.9	84.2	85.4	10.0	4.0
25	73.0	76.8	77.0	83.7	85.2	10.7	3.8
27	71.9	76.3	76.9	83.2	84.3	11.3	4.4
29	72.5	77.1	77.9	83.9	83.9	11.4	4.6
31	71.8	76.1	77.9	83.7	83.7	11.9	4.3
33	73.6	78.5	80.0	85.9	85.9	12.3	4.9
35	76.0	80.7	82.5	88.0	88.0	12.0	4.7
36	76.2	80.7	83.0	88.4	88.4	12.2	4.5
OH → 38	76.2	81.1	83.2	88.3	88.3	12.1	4.9
40	75.0	80.2	82.4	87.4	87.4	12.4	5.2
42	74.6	79.9	82.0	86.6	86.6	12.0	5.3
44	74.3	79.5	81.5	86.1	86.1	11.8	5.2
46	73.6	78.7	80.5	85.7	87.2	12.1	5.1
48	71.0	76.2	77.9	83.3	84.5	12.3	5.2
50	69.9	74.8	76.0	82.2	82.2	12.3	4.9
52	69.2	73.8	74.8	81.3	81.3	12.1	4.6
54	68.8	74.0	75.4	81.2	81.2	12.4	5.2
56	68.2	73.3	74.8	79.8	79.8	11.6	5.1
58	67.6	72.7	74.8	79.4	81.0	11.8	5.1
60	66.7	72.1	74.6	79.1	79.1	12.4	5.4
62	65.4	71.5	74.2	78.1	78.1	12.7	6.1
64	64.7	71.0	73.8	77.5	79.3	12.8	6.3
66	63.2	70.3	73.4	76.7	77.8	13.5	7.1
68	63.6	70.2	73.4	76.7	78.1	13.1	6.6
70	64.4	71.0	74.0	77.6	78.8	13.2	6.6
72	64.1	70.9	73.8	77.5	77.5	13.4	6.8
74	62.9	69.8	72.9	76.5	78.1	13.6	6.9
76	61.5	68.9	72.5	75.3	76.5	13.8	7.4
78	60.8	68.1	71.8	74.5	74.5	13.7	7.3
80	60.7	67.8	71.6	74.0	74.0	13.3	7.1

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 26, 60 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLI	PNL-DBA	DBD-DBA
5	59.8	65.4	71.0	73.1	73.1	13.3	5.6
7	64.8	69.0	71.9	76.8	78.6	12.0	4.2
9	66.7	70.9	72.2	78.7	80.7	12.0	4.2
11	66.8	71.1	72.9	79.0	80.5	12.2	4.3
13	68.2	72.4	73.6	80.0	80.0	11.8	4.2
15	69.5	73.7	75.0	80.8	82.1	11.3	4.2
17	69.3	73.7	75.4	80.7	82.1	11.4	4.4
19	70.0	74.9	76.4	82.0	82.0	12.0	4.9
21	70.9	76.0	77.8	83.7	83.7	12.8	5.1
23	71.6	77.0	79.1	85.0	85.0	13.4	5.4
25	73.0	78.1	80.0	85.7	85.7	12.7	5.1
OH → 27	74.4	79.4	80.9	86.8	86.8	12.4	5.0
29	75.0	80.1	81.5	87.3	87.3	12.3	5.1
31	74.4	79.7	81.1	86.6	86.6	12.2	5.3
33	74.5	80.0	81.0	86.9	88.2	12.4	5.5
35	73.6	78.8	80.2	86.2	86.2	12.6	5.2
37	73.0	78.1	79.2	85.5	86.5	12.5	5.1
39	71.1	76.4	77.6	83.8	83.8	12.7	5.3
41	69.3	74.7	75.8	81.7	83.0	12.4	5.4
43	69.3	74.1	75.3	81.1	82.6	11.8	4.8
45	71.4	75.8	75.8	82.8	82.8	11.4	4.4
47	71.0	75.2	75.0	82.4	83.8	11.4	4.2
49	70.2	74.0	74.6	81.0	82.9	10.8	3.8
51	69.0	73.7	73.2	80.9	80.9	11.9	4.7
53	67.9	73.1	72.6	80.4	81.5	12.5	5.2
55	68.3	72.5	73.6	80.0	81.1	11.7	4.2
57	66.9	71.2	72.7	78.6	79.7	11.7	4.3
59	66.5	71.4	72.0	78.7	79.8	12.2	4.9
61	65.8	70.5	72.0	77.1	78.4	11.3	4.7
63	64.8	69.6	72.0	75.9	77.8	11.1	4.8
65	63.5	68.8	71.7	75.2	76.9	11.7	5.3
67	64.6	69.5	72.3	76.2	77.3	11.6	4.9
69	66.1	70.9	73.2	77.1	78.2	11.0	4.8
71	65.8	71.3	72.8	77.7	79.2	11.9	5.5
73	63.3	69.8	72.2	76.0	77.7	12.7	6.5
75	61.4	68.7	71.8	75.1	76.1	13.7	7.3
77	62.9	69.6	72.6	76.1	76.6	13.2	6.7
79	67.0	72.3	74.6	78.6	79.1	11.6	5.3
81	68.0	73.4	75.5	79.3	80.4	11.3	5.4
83	66.7	72.1	74.6	78.0	78.6	11.3	5.4
85	62.6	69.1	72.2	75.6	76.1	13.0	6.5
87	58.4	66.6	70.8	73.1	73.1	14.7	8.2
89	57.5	66.2	70.5	72.4	72.4	14.9	8.7

TABLE C-IV

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 30, 75 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
5	63.1	67.3	70.1	74.5	74.5	11.4	4.2
7	64.7	68.3	71.0	75.6	77.1	10.9	3.6
9	64.6	69.1	71.6	76.0	77.6	11.4	4.5
11	65.0	69.5	71.7	76.5	76.5	11.5	4.5
13	65.2	69.2	71.2	76.4	77.6	11.2	4.0
15	67.3	71.3	72.6	78.3	80.0	11.0	4.0
17	69.1	73.4	74.5	80.4	80.4	11.3	4.3
19	71.3	75.8	76.4	83.0	83.0	11.7	4.5
21	71.7	76.6	77.4	83.7	83.7	12.0	4.9
23	72.6	78.1	78.8	84.7	84.7	12.1	5.5
OH → 25	72.3	77.8	79.0	84.6	84.6	12.3	5.5
27	72.6	78.2	79.4	85.2	85.2	12.6	5.6
29	72.6	78.1	79.9	85.6	85.6	13.0	5.5
31	74.2	79.7	80.3	87.1	87.1	12.9	5.5
33	73.1	78.3	79.1	86.0	86.0	12.9	5.2
35	71.7	76.8	77.4	84.4	84.4	12.7	5.1
37	71.7	76.4	76.5	83.4	83.4	11.7	4.7
39	70.1	74.4	75.2	81.8	83.5	11.7	4.3
41	68.8	72.8	73.8	80.3	80.3	11.5	4.0
43	70.2	74.3	74.5	81.7	82.7	11.5	4.1
45	69.7	73.9	74.8	81.3	81.3	11.6	4.2
47	69.1	73.5	74.3	80.3	81.6	11.2	4.4
49	66.3	70.9	72.6	77.5	78.8	11.2	4.6
51	64.4	69.7	72.3	76.4	76.4	12.0	5.3
53	64.3	70.3	73.4	77.1	77.1	12.8	6.0
55	63.8	70.2	73.3	76.7	78.1	12.9	6.4
57	63.5	68.9	71.5	75.2	77.3	11.7	5.4
59	65.0	69.5	70.9	76.0	76.0	11.0	4.5
61	63.4	68.6	70.3	75.2	76.6	11.8	5.2
63	62.1	67.1	69.7	73.6	74.7	11.5	5.0
65	63.1	66.9	69.6	73.5	74.7	10.4	3.8
67	64.0	68.0	70.4	74.5	76.0	10.5	4.0
69	65.1	69.1	70.8	75.6	77.2	10.5	4.0
71	65.6	70.0	71.5	76.2	77.6	10.6	4.4
73	63.5	69.5	71.7	76.3	77.6	12.8	6.0
75	61.5	68.9	71.8	75.5	76.6	14.0	7.4
77	61.4	68.8	71.8	75.2	75.8	13.8	7.4
79	61.3	68.7	71.9	74.4	74.9	13.1	7.4
81	62.6	69.5	72.2	74.9	74.9	12.3	6.9
83	65.6	71.4	73.3	78.1	78.1	12.5	5.8
85	67.5	72.4	73.8	79.3	79.3	11.8	4.9
87	65.3	70.2	71.9	76.6	77.1	11.3	4.9
89	60.6	66.7	69.3	72.8	73.3	12.2	6.1

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 31, 75 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.7	67.7	72.1	74.7	76.1	12.0	5.0
3	63.9	68.6	72.5	75.2	75.2	11.3	4.7
5	61.8	67.2	73.2	73.7	73.7	11.9	5.4
7	65.5	70.7	74.6	77.3	78.5	11.8	5.2
9	68.0	72.5	75.2	79.3	81.2	11.3	4.5
11	67.5	72.1	75.3	79.0	79.0	11.5	4.6
13	69.4	73.7	76.4	81.1	81.1	11.7	4.3
15	69.7	74.0	76.9	81.3	82.3	11.6	4.3
17	71.0	75.3	77.5	82.4	83.9	11.4	4.3
19	71.8	76.5	78.1	83.8	85.2	12.0	4.7
21	73.1	78.2	78.9	85.5	85.5	12.4	5.1
23	73.9	79.5	79.8	86.8	86.8	12.9	5.6
OH 25 → 26	74.0	79.6	79.9	87.1	87.1	13.1	5.6
27	75.0	80.8	81.0	88.2	88.2	13.2	5.8
29	75.1	80.8	80.8	88.3	88.3	13.2	5.7
31	75.8	81.3	81.2	88.5	88.5	12.7	5.5
33	76.3	81.8	81.8	88.6	88.6	12.3	5.5
34	75.9	81.3	81.3	88.3	89.6	12.4	5.4
36	74.6	79.6	79.8	86.7	88.0	12.1	5.0
38	73.3	78.1	78.2	85.6	85.6	12.3	4.8
40	73.5	78.4	78.0	85.9	85.9	12.4	4.9
42	73.4	78.2	77.8	85.3	86.4	11.9	4.8
44	71.9	76.3	76.7	83.4	83.4	11.5	4.4
46	72.5	76.8	76.7	83.6	85.4	11.1	4.3
48	71.8	76.1	76.6	83.2	84.4	11.4	4.3
50	70.5	75.1	76.1	82.2	82.2	11.7	4.6
52	67.9	72.2	73.9	79.1	81.0	11.2	4.3
54	67.5	72.4	73.8	78.6	80.6	11.1	4.9
56	66.6	71.8	73.7	78.1	79.7	11.5	5.2
58	69.3	73.2	74.7	80.0	82.0	10.7	3.9
60	69.3	73.7	75.1	80.3	81.9	11.0	4.4
62	66.0	71.5	73.8	77.9	79.1	11.9	5.5
64	64.0	69.6	72.4	75.8	77.4	11.8	5.6
66	62.0	67.4	70.7	74.1	75.4	12.1	5.4
68	51.8	67.8	70.7	74.2	75.9	12.4	6.0

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 33, 75 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.5	70.5	74.7	77.5	78.7	12.0	5.0
3	65.4	71.2	75.8	77.8	77.8	12.4	5.8
5	67.0	72.5	76.5	79.0	79.0	12.0	5.5
7	67.2	72.4	76.9	79.0	80.1	11.8	5.2
9	67.5	72.5	77.3	79.3	80.3	11.8	5.0
11	69.2	73.8	77.9	81.0	82.1	11.8	4.6
13	70.0	74.8	78.5	81.7	83.4	11.7	4.8
15	72.6	77.2	79.3	84.3	84.3	11.7	4.6
17	73.3	78.0	79.4	85.4	85.4	12.1	4.7
19	72.8	77.9	79.3	85.5	85.5	12.7	5.1
21	73.8	78.9	80.3	86.5	87.5	12.7	5.1
OH 23 → 24	75.7	80.8	81.4	88.3	88.3	12.6	5.1
25	76.3	81.5	81.7	89.1	89.1	12.8	5.2
27	75.7	81.6	81.5	89.2	89.2	13.5	5.9
29	76.6	82.4	82.1	89.6	89.6	13.0	5.8
31	76.8	82.8	82.4	89.6	89.6	12.8	6.0
33	76.7	82.3	82.5	89.2	90.4	12.5	5.6
35	76.5	81.6	81.7	88.4	89.4	11.9	5.1
37	75.1	79.8	79.8	86.9	86.9	11.8	4.7
39	74.2	78.8	78.8	86.1	86.1	11.9	4.6
41	74.8	78.9	78.4	85.8	87.4	11.0	4.1
43	72.7	77.0	77.2	84.3	84.3	11.6	4.3
45	72.0	76.3	76.9	83.7	84.8	11.7	4.3
47	72.7	77.3	77.8	84.6	86.1	11.9	4.6
49	73.8	78.4	77.9	85.2	85.2	11.4	4.6
51	71.3	76.0	76.8	82.8	82.8	11.5	4.7
53	68.9	73.4	75.6	80.7	82.2	11.8	4.5
55	68.9	73.6	75.6	80.6	81.7	11.7	4.7
57	71.2	74.9	76.1	82.1	84.0	10.9	3.7
59	70.4	74.3	75.6	81.3	83.1	10.9	3.9
61	65.0	70.7	73.4	77.2	77.2	12.2	5.7
63	63.7	69.3	72.4	76.0	77.6	12.3	5.6
65	61.1	68.0	72.0	74.4	75.7	13.3	6.9
67	61.1	68.4	72.2	74.3	76.0	13.2	7.3

TABLE C-II

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 36, 82 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	60.5	66.5	73.3	72.8	73.9	12.3	6.0
3	61.4	67.5	73.7	73.9	74.9	12.5	6.1
5	65.0	70.0	74.1	76.5	76.5	11.5	5.0
7	67.4	72.0	74.8	78.7	80.1	11.3	4.6
9	67.0	71.7	75.2	78.7	79.9	11.7	4.7
11	69.4	73.6	76.2	80.5	81.8	11.1	4.2
13	69.2	73.6	76.5	80.1	81.4	10.9	4.4
15	71.8	76.4	78.3	83.2	83.2	11.4	4.6
17	72.5	77.4	79.0	84.7	84.7	12.2	4.9
19	72.9	78.4	79.0	85.5	85.5	12.6	5.5
21	74.0	79.4	80.0	86.6	87.6	12.6	5.4
Off → 23	74.9	80.9	81.2	88.1	88.1	13.2	6.0
25	75.4	81.3	81.2	88.5	88.5	13.1	5.9
27	76.3	82.0	81.9	89.5	89.5	13.2	5.7
29	76.0	81.8	81.7	88.7	88.7	12.7	5.8
31	76.4	81.6	81.3	88.4	89.6	12.0	5.2
33	75.3	80.2	80.0	87.5	88.8	12.2	4.9
35	73.8	79.0	79.2	86.2	87.3	12.4	5.2
37	74.2	79.2	78.4	86.1	86.1	11.9	5.0
39	73.4	78.1	77.3	85.5	85.5	12.1	4.7
41	72.5	77.2	76.7	84.2	85.3	11.4	4.4
43	72.3	77.0	76.6	83.6	83.6	11.3	4.7
45	72.3	76.8	76.5	83.1	84.4	10.8	4.5
47	71.0	75.6	75.5	81.9	83.7	10.9	4.6
49	69.7	74.5	74.3	81.3	82.5	11.6	4.8
51	68.7	73.2	73.9	80.3	81.3	11.6	4.5
53	67.4	71.8	73.2	78.5	79.9	11.1	4.4
55	65.8	70.9	73.1	77.3	79.3	11.5	5.1
57	64.4	69.8	72.3	76.3	77.7	11.9	5.4
59	68.3	72.5	73.7	79.0	80.4	10.7	4.2
61	69.6	73.3	74.1	79.8	81.6	10.2	3.7
63	66.4	71.4	73.5	77.7	79.3	11.3	5.0
65	64.5	70.1	72.7	76.6	78.5	12.1	5.6
67	61.6	68.7	72.2	75.3	75.3	13.7	7.1
69	66.4	70.7	73.3	77.4	79.1	11.0	4.3
71	71.3	74.3	75.0	81.7	83.5	10.4	3.0
73	70.7	73.6	74.8	80.7	81.9	10.0	2.9
75	70.2	73.6	74.4	80.0	80.0	9.8	3.4
77	67.2	70.9	72.0	77.4	77.4	10.2	3.7
79	57.1	63.7	68.0	70.5	70.5	13.4	6.6
81	57.7	63.7	68.1	70.5	71.7	12.8	6.0

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 41, 9 DEGREE APPROACH, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	63.2	68.4	69.9	74.7	75.2	11.5	5.2
3	68.6	72.8	74.4	79.7	80.4	11.1	4.2
5	71.3	74.5	75.3	82.1	83.5	10.8	3.2
7	70.3	73.4	74.5	80.8	82.5	10.5	3.1
9	70.1	73.9	74.9	81.3	82.2	11.2	3.8
11	71.1	74.7	75.8	82.3	83.3	11.2	3.6
13	66.8	72.0	73.9	79.4	80.9	12.6	5.2
15	63.0	68.6	71.7	76.2	78.0	13.2	5.6
17	59.6	66.3	70.3	73.2	74.6	13.6	6.7
19	59.3	65.6	69.4	72.7	73.5	13.4	6.3
21	61.4	66.6	69.1	74.7	75.6	13.3	5.2
23	63.3	68.0	69.8	75.7	76.7	12.4	4.7
25	61.9	66.7	69.4	74.4	76.0	12.5	4.8
27	61.1	65.9	69.5	73.4	75.6	12.3	4.8
29	63.6	68.3	70.4	75.2	77.4	11.6	4.7
31	65.1	69.8	71.6	77.1	78.7	12.0	4.7
33	66.0	71.1	72.5	78.3	79.2	12.3	5.1
35	66.9	71.9	73.1	78.8	79.3	11.9	5.0
37	67.7	72.7	74.6	79.9	79.9	12.2	5.0
39	68.4	73.4	75.5	81.0	81.5	12.6	5.0
41	69.2	74.8	76.8	82.6	82.6	13.4	5.6
43	70.9	76.0	77.9	83.8	84.3	12.9	5.1
45	72.5	77.1	79.1	84.6	84.6	12.1	4.6
OH → 47	72.0	76.6	79.0	84.2	84.2	12.2	4.6
49	71.0	76.1	78.4	83.7	83.7	12.7	5.1
51	71.2	76.5	78.9	84.0	84.0	12.8	5.3
53	70.9	76.2	78.7	83.6	84.6	12.7	5.3
55	71.9	76.9	78.9	83.8	85.2	11.9	5.0
57	71.0	76.3	78.4	83.0	84.3	12.0	5.3
59	70.4	75.5	78.0	82.7	83.7	12.3	5.1
61	70.3	75.2	77.4	82.5	84.2	12.2	4.9
63	69.7	74.3	76.2	81.9	82.5	12.2	4.6
65	69.5	73.8	75.2	81.6	82.8	12.1	4.3
67	67.8	72.8	74.6	80.7	81.4	12.9	5.0
69	65.7	70.4	72.7	78.0	78.7	12.3	4.7
71	64.0	69.2	71.8	76.2	76.8	12.2	5.2
73	63.0	68.4	71.5	75.3	77.0	12.3	5.4
75	63.6	69.1	71.3	76.0	77.3	12.4	5.5
77	62.2	68.4	71.1	75.3	76.4	13.1	6.2
79	61.8	68.0	70.8	75.1	76.3	13.3	6.2
81	61.4	67.6	70.4	74.5	74.5	13.1	6.2
83	58.2	65.8	69.2	72.0	73.6	13.8	7.6
85	58.1	66.0	69.6	72.1	73.4	14.0	7.9
87	60.1	67.1	70.2	73.2	74.7	13.1	7.0

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 19, 6 DEGREE APPROACH, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	59.0	74.9	70.1	71.5	71.5	12.5	15.9
3	60.6	75.4	70.1	72.1	73.2	11.5	14.8
5	61.0	75.5	69.9	73.1	73.1	12.1	14.5
7	64.9	78.4	71.5	75.7	75.7	10.8	13.5
9	66.6	79.7	72.1	76.5	78.2	9.9	13.1
11	65.2	78.9	72.1	75.6	77.7	10.4	13.7
13	64.8	78.5	71.9	75.4	77.0	10.6	13.7
15	64.3	78.5	72.1	75.5	76.6	11.2	14.2
17	66.1	80.0	73.4	77.0	77.0	10.9	13.9
19	68.2	82.0	74.7	79.0	79.0	10.8	13.8
21	68.4	82.8	75.9	79.8	81.3	11.4	14.4
23	69.4	83.7	76.5	81.0	81.0	11.6	14.3
25	69.3	84.3	76.6	81.7	81.7	12.4	15.0
27	70.8	85.5	77.1	83.0	84.5	12.2	14.7
29	71.8	86.6	78.0	84.3	85.7	12.5	14.8
31	71.9	87.1	78.0	85.0	85.0	13.1	15.2
OH → 33	72.6	87.7	78.7	85.6	85.6	13.0	15.1
35	73.1	88.5	79.2	86.0	86.0	12.9	15.4
36	73.3	88.9	79.2	86.4	86.4	13.1	15.6
38	72.9	88.5	79.1	85.7	85.7	12.6	15.6
40	72.0	86.8	78.1	84.0	85.1	12.0	14.8
42	70.2	85.2	76.3	82.2	83.8	12.0	15.0
44	68.5	83.7	74.7	81.1	82.2	12.6	15.2
46	68.7	84.1	74.1	81.4	81.4	12.7	15.4
48	68.4	83.7	74.0	81.1	81.1	12.7	15.3
50	66.3	81.7	73.3	78.7	78.7	12.4	15.4
52	65.2	80.2	72.9	77.2	79.8	12.0	15.0
54	63.8	79.7	73.0	76.2	78.8	12.4	15.9
56	65.8	81.2	74.0	77.8	77.8	12.0	15.4
58	64.4	80.4	73.7	76.8	77.9	12.4	16.0
60	62.7	79.1	72.9	75.4	75.4	12.7	16.4
62	62.6	78.9	72.9	75.1	75.1	12.5	16.3
64	62.9	79.2	72.8	75.5	76.6	12.6	16.3
66	62.1	78.6	72.3	75.1	76.6	13.0	16.5
68	61.3	78.4	72.1	74.7	76.1	13.4	17.1
70	61.7	78.6	72.2	75.0	76.1	13.3	16.9
72	62.1	78.5	72.0	75.0	75.0	12.9	16.4
74	61.9	78.3	71.9	74.9	76.2	13.0	16.4
76	61.7	78.0	71.6	74.7	76.1	13.0	16.3
78	60.1	76.9	71.0	73.3	74.4	13.2	16.8
80	59.8	76.7	70.7	72.5	72.5	12.7	16.9
82	59.3	76.5	70.5	72.4	72.4	13.1	17.2

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 26, 60 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.3	77.4	73.1	74.3	75.9	12.0	15.1
3	62.3	77.3	73.2	74.3	75.9	12.0	15.0
5	64.4	78.9	73.2	75.6	75.6	11.2	14.5
7	64.6	79.4	73.1	75.9	77.1	11.3	14.8
9	65.9	80.5	74.0	77.2	79.4	11.3	14.6
11	65.7	80.5	74.5	77.5	79.5	11.8	14.8
13	66.5	81.3	75.0	78.1	79.7	11.6	14.8
15	67.4	82.1	75.9	78.6	78.6	11.2	14.7
17	68.9	84.1	76.7	80.9	82.2	12.0	15.2
19	69.5	84.6	77.3	81.8	81.8	12.3	15.1
21	71.4	86.3	78.0	83.7	85.1	12.3	14.9
23	72.8	87.7	78.4	84.9	85.9	12.1	14.9
25	73.4	88.5	78.6	85.9	85.9	12.5	15.1
OH → 27	72.6	88.1	78.2	85.7	85.7	13.1	15.5
29	72.8	89.0	78.9	86.4	86.4	13.6	16.2
31	73.5	89.6	79.0	87.0	87.0	13.5	16.1
33	72.9	88.1	78.7	85.4	85.4	12.5	15.2
35	73.2	88.2	79.0	85.3	85.3	12.1	15.0
37	72.6	88.1	78.8	85.1	85.1	12.5	15.5
39	72.3	87.5	78.0	84.4	84.4	12.1	15.2
41	69.5	85.0	76.2	81.6	83.3	12.1	15.5
43	68.1	83.4	75.3	80.4	81.9	12.3	15.3
45	68.2	83.2	74.6	80.5	80.5	12.3	15.0
47	68.1	82.9	73.6	79.9	81.8	11.8	14.8
49	67.3	82.2	72.8	79.6	80.9	12.3	14.9
51	66.4	80.9	72.7	78.0	79.1	11.6	14.5
53	68.1	81.9	73.8	79.1	80.7	11.0	13.8
55	65.5	79.7	72.3	76.5	77.5	11.0	14.2
57	65.1	79.3	71.8	76.2	78.5	11.1	14.2
59	68.1	81.9	72.9	79.1	81.3	11.0	13.8
61	66.8	80.9	72.4	78.0	80.1	11.2	14.1
63	64.7	79.3	71.9	75.9	77.4	11.2	14.6
65	63.7	78.4	71.8	75.4	76.6	11.7	14.7
67	63.7	78.5	71.6	75.2	76.5	11.5	14.9
69	61.2	77.4	71.0	74.1	75.4	12.9	16.2

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 30, 75 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	60.0	65.8	71.0	72.7	73.9	12.7	5.8
3	61.5	66.9	71.5	74.2	74.2	12.7	5.4
5	61.5	66.4	71.1	73.3	75.0	11.8	4.9
7	63.3	68.5	71.7	75.3	76.6	12.0	5.2
9	66.6	71.2	73.0	78.4	78.4	11.8	4.6
11	67.4	71.9	73.8	78.6	80.3	11.2	4.5
13	68.5	73.7	75.0	80.5	80.5	12.0	5.2
15	70.2	75.4	76.0	82.3	82.3	12.1	5.2
17	71.7	77.1	77.0	83.9	83.9	12.2	5.4
OH 19 → 20	73.0	78.7	78.5	85.6	85.6	12.6	5.7
21	73.6	79.5	79.2	86.7	86.7	13.1	5.9
23	72.8	78.9	78.9	85.8	85.8	13.0	6.1
25	72.6	78.7	78.5	85.7	85.7	13.1	6.1
27	72.0	77.6	78.2	85.0	85.0	13.0	5.6
29	71.4	77.0	77.3	84.0	85.1	12.6	5.6
31	71.0	76.2	76.2	83.2	84.4	12.2	5.2
33	70.1	75.3	75.3	82.4	82.4	12.3	5.2
35	68.9	74.5	74.7	81.6	81.6	12.7	5.6
37	69.9	75.3	74.1	82.1	83.3	12.2	5.4
39	70.2	75.1	74.8	81.7	81.7	11.5	4.9
41	69.3	74.1	74.8	80.9	82.1	11.6	4.8
43	68.8	73.9	74.7	80.7	82.3	11.9	5.1
45	68.8	72.9	74.7	80.1	80.1	11.3	4.1
47	67.5	71.7	73.9	78.5	80.0	11.0	4.2
49	66.3	70.7	72.9	77.2	79.0	10.9	4.4
51	63.0	66.6	68.6	74.1	76.6	11.1	3.6
53	62.9	68.1	70.9	74.3	76.1	11.4	5.2
55	64.0	69.4	72.8	75.6	76.8	11.6	5.4
57	61.9	67.9	72.4	74.2	74.2	12.3	6.0
59	63.3	68.3	72.2	74.7	76.1	11.4	5.0
61	66.5	70.7	72.8	77.1	78.5	10.6	4.2
63	64.3	68.9	71.9	75.6	76.7	11.3	4.6
65	60.6	67.3	71.4	73.7	75.1	13.1	6.7
67	61.2	67.6	71.4	73.8	73.8	12.6	6.4
69	64.3	70.1	73.1	76.8	76.8	12.5	5.8
71	63.5	69.7	72.6	76.6	76.6	13.1	6.2
73	60.8	67.9	71.0	74.6	74.6	13.8	7.1
75	60.6	67.8	70.3	74.5	74.5	13.9	7.2
77	60.3	66.9	69.7	73.9	73.9	13.6	6.6

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 31, 75 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.2	66.2	69.8	72.8	74.0	11.6	5.0
3	63.4	68.3	71.2	74.9	76.2	11.5	4.9
5	64.6	69.1	71.5	76.1	76.1	11.5	4.5
7	63.9	68.4	71.0	75.8	77.5	11.9	4.5
9	67.7	72.3	72.5	79.1	80.9	11.4	4.6
11	70.6	74.8	74.3	81.5	81.5	10.9	4.2
13	70.3	74.7	74.9	81.5	83.1	11.2	4.4
15	70.1	74.8	75.2	81.5	82.9	11.4	4.7
17	70.8	75.9	76.8	82.8	82.8	12.0	5.1
19	70.9	76.2	77.3	83.4	83.4	12.5	5.3
21	72.7	77.6	78.8	84.7	84.7	12.0	4.9
23	73.2	78.6	79.5	85.5	85.5	12.3	5.4
OH → 25	74.3	79.5	79.9	86.7	86.7	12.4	5.2
27	74.8	79.9	80.5	86.7	86.7	11.9	5.1
29	74.5	79.7	80.8	87.0	87.0	12.5	5.2
31	74.0	79.5	80.4	86.4	86.4	12.4	5.5
33	74.4	79.8	80.0	86.5	86.5	12.1	5.4
35	74.7	79.8	79.7	87.0	88.1	12.3	5.1
37	73.8	78.8	78.9	85.7	87.1	11.9	5.0
39	73.3	77.6	77.9	84.5	85.7	11.2	4.3
41	72.2	76.7	76.8	83.5	83.5	11.3	4.5
43	73.2	77.7	77.4	84.9	86.1	11.7	4.5
45	71.1	75.5	75.9	83.0	85.0	11.9	4.4
47	71.9	76.1	76.1	83.4	85.2	11.5	4.2
49	71.3	75.7	75.9	83.0	84.2	11.7	4.4
51	71.4	75.6	75.5	82.5	82.5	11.1	4.2
53	70.9	75.5	75.9	82.5	83.7	11.6	4.6
55	71.5	75.6	76.2	82.6	83.9	11.1	4.1
57	67.8	72.8	73.3	79.7	80.7	11.9	5.0
59	65.9	71.2	72.6	77.8	77.8	11.9	5.3
61	67.1	71.3	72.3	78.1	78.1	11.0	4.2
63	68.8	73.8	72.6	81.2	81.2	12.4	5.0
65	69.5	74.4	73.1	81.5	81.5	12.0	4.9
67	69.0	72.8	73.4	79.5	81.4	10.5	3.8
69	66.9	71.0	72.4	77.8	79.3	10.9	4.1
71	64.6	69.2	71.0	75.9	75.9	11.3	4.6
73	62.4	67.8	69.7	74.3	74.3	11.9	5.4

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 33, 75 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.6	67.8	71.8	74.2	76.0	11.6	5.2
3	62.9	67.9	71.8	74.8	76.4	11.9	5.0
5	64.6	69.5	72.3	76.4	76.4	11.8	4.9
7	66.3	71.5	73.3	78.2	80.0	11.9	5.2
9	68.5	73.3	74.8	80.8	82.5	12.3	4.8
11	70.0	74.5	75.2	81.8	81.8	11.8	4.5
13	71.1	75.2	75.7	82.3	84.2	11.2	4.1
15	72.4	76.6	77.3	83.4	84.6	11.0	4.2
17	72.6	77.3	78.0	84.6	84.6	12.0	4.7
19	72.2	77.2	78.5	84.7	84.7	12.5	5.0
21	73.1	78.3	79.7	85.9	85.9	12.8	5.2
23	74.4	80.2	81.1	87.4	87.4	13.0	5.8
25	75.4	81.0	81.7	87.9	87.9	12.5	5.6
27	75.5	80.8	81.8	87.9	89.0	12.4	5.3
29	75.1	80.7	81.4	88.0	88.0	12.9	5.6
31	76.5	82.0	81.8	89.1	89.1	12.6	5.5
32	77.0	82.4	82.0	89.6	89.6	12.6	5.4
34	75.4	80.5	80.8	87.9	87.9	12.5	5.1
36	74.4	79.8	79.6	87.1	88.2	12.7	5.4
38	74.1	79.3	79.2	86.6	86.6	12.5	5.2
40	72.8	78.0	77.7	85.0	85.0	12.2	5.2
42	70.8	75.7	76.5	83.2	84.6	12.4	4.9
44	74.2	78.5	78.0	85.5	87.3	11.3	4.3
46	74.2	78.5	77.8	85.5	86.7	11.3	4.3
48	73.1	77.2	77.0	84.5	84.5	11.4	4.1
50	72.0	76.7	76.1	83.9	85.1	11.9	4.7
52	73.7	78.0	76.8	84.7	86.3	11.0	4.3
54	72.8	77.4	76.2	84.3	85.5	11.5	4.6
56	70.7	75.1	74.6	82.3	83.4	11.6	4.4
58	71.9	75.9	75.5	82.7	82.7	10.8	4.0
60	70.7	74.9	75.2	81.7	81.7	11.0	4.2
62	67.1	73.0	74.5	79.7	79.7	12.6	5.9
64	67.2	72.8	74.5	79.8	80.8	12.6	5.6
66	65.1	70.4	72.5	77.2	78.6	12.1	5.3
68	64.4	69.3	71.4	76.4	77.7	12.0	4.9
70	61.2	67.1	70.1	74.6	75.8	13.4	5.9
72	58.5	64.9	68.7	72.1	73.3	13.6	6.4

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 36, 82 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.9	65.8	70.2	73.0	73.0	11.1	3.9
3	62.7	66.7	70.7	73.9	75.8	11.2	4.0
5	62.2	66.6	71.3	73.7	75.3	11.5	4.4
7	66.7	70.5	72.8	77.5	79.0	10.8	3.8
9	66.7	70.7	72.9	77.8	79.2	11.1	4.0
11	67.1	71.5	73.3	78.5	78.5	11.4	4.4
13	69.5	73.6	74.6	81.1	83.0	11.6	4.1
15	69.8	74.3	75.0	81.4	81.4	11.6	4.5
17	71.4	76.0	76.5	82.6	84.2	11.2	4.6
19	71.8	76.3	77.3	82.9	84.5	11.1	4.5
21	72.0	76.6	77.9	83.9	83.9	11.9	4.6
23	73.8	78.0	79.0	85.4	85.4	11.6	4.2
25	74.0	78.5	79.3	85.5	85.5	11.5	4.5
OH → 27	74.8	79.6	79.8	86.9	86.9	12.1	4.8
29	74.5	79.5	80.2	86.8	86.8	12.3	5.0
31	74.6	79.5	80.8	86.7	86.7	12.1	4.9
32	75.9	81.2	81.5	88.2	88.2	12.3	5.3
34	75.6	81.0	81.0	87.8	87.8	12.2	5.4
36	75.1	80.2	79.8	87.0	87.0	11.9	5.1
38	74.7	79.5	79.4	86.3	86.3	11.6	4.8
40	75.3	80.4	79.7	87.4	87.4	12.1	5.1
42	73.9	79.3	78.5	86.4	86.4	12.5	5.4
44	74.1	78.9	78.1	86.0	87.0	11.9	4.8
46	73.2	77.4	77.4	84.5	84.5	11.3	4.2
48	72.7	77.2	77.2	84.1	85.7	11.4	4.5
50	71.9	76.6	76.3	83.4	84.8	11.5	4.7
52	74.0	78.0	77.8	84.9	84.9	10.9	4.0
54	73.3	77.4	77.0	84.2	84.2	10.9	4.1
56	68.4	72.9	73.5	79.8	79.8	11.4	4.5
58	67.8	72.4	73.2	79.0	80.1	11.2	4.6
60	68.7	73.0	74.0	80.0	80.0	11.3	4.3
62	68.8	73.0	73.9	79.8	79.8	11.0	4.2
64	67.6	72.0	72.7	79.0	80.4	11.4	4.4
66	67.2	71.6	73.4	78.3	79.9	11.1	4.4
68	64.2	69.6	71.9	76.5	78.0	12.3	5.4
70	63.2	68.7	71.2	75.3	76.7	12.1	5.5
72	65.1	70.0	71.2	76.3	76.3	11.2	4.9
74	64.2	69.3	70.9	75.4	76.9	11.2	5.1

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 41, 9 DEGREE APPROACH, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	57.9	63.6	68.2	70.9	70.9	13.0	5.7
3	60.2	65.8	70.1	73.3	74.3	13.1	5.6
5	60.6	66.8	70.9	73.2	74.7	12.6	6.2
7	62.9	68.4	72.2	75.3	77.1	12.4	5.5
9	66.4	69.8	72.4	77.0	79.5	10.6	3.4
11	65.4	68.9	71.5	76.2	78.6	10.8	3.5
13	66.6	70.0	72.3	76.9	79.2	10.3	3.4
15	63.1	67.7	71.4	75.0	76.3	11.9	4.6
17	60.4	66.0	70.8	73.3	73.3	12.9	5.6
19	61.7	66.7	70.7	73.9	75.2	12.2	5.0
21	63.9	69.0	71.6	75.8	77.3	11.9	5.1
23	63.8	69.2	71.9	76.0	77.6	12.2	5.4
25	63.9	68.6	72.2	75.6	77.4	11.7	4.7
27	65.9	70.2	73.7	77.4	79.2	11.5	4.3
29	69.2	73.8	75.9	80.2	80.2	11.0	4.6
31	71.8	76.0	78.1	82.9	82.9	11.1	4.2
33	69.6	74.3	76.8	81.6	81.6	12.0	4.7
35	68.2	73.6	75.6	80.9	80.9	12.7	5.4
37	69.8	75.2	76.7	82.3	82.3	12.5	5.4
39	70.1	75.7	76.8	83.0	83.0	12.9	5.6
41	70.7	76.2	77.5	83.7	83.7	13.0	5.5
43	73.1	78.6	79.7	85.9	85.9	12.8	5.5
OH 45	74.1	79.4	80.5	86.5	87.6	12.4	5.3
47	72.2	77.8	78.2	85.0	85.0	12.8	5.6
49	71.2	77.3	77.8	84.2	84.2	13.0	6.1
51	71.5	77.8	78.0	84.9	84.9	13.4	6.3
53	71.3	77.4	78.4	84.1	84.1	12.8	6.1
55	71.5	77.3	78.4	84.3	85.7	12.8	5.8
57	71.4	76.8	77.7	83.9	85.8	12.5	5.4
59	69.2	74.5	76.1	81.5	82.7	12.3	5.3
61	67.7	73.0	75.0	79.6	80.8	11.9	5.3
63	67.1	72.3	73.8	79.3	79.3	12.2	5.2
65	66.8	72.1	73.7	78.9	80.8	12.1	5.3
67	67.1	72.9	74.1	79.8	80.9	12.7	5.8
69	65.5	71.1	73.1	77.2	79.1	11.7	5.6
71	65.1	70.6	72.7	76.7	77.9	11.6	5.5
73	62.3	68.8	71.8	74.9	76.4	12.6	6.5
75	61.0	68.3	72.0	74.4	74.4	13.4	7.3
77	61.5	68.4	71.8	74.7	74.7	13.2	6.9
79	60.8	67.7	70.8	74.1	74.1	13.3	6.9

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 19, 6 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.9	69.8	72.2	76.8	78.2	10.9	3.9
2	65.9	70.5	72.8	77.2	79.2	11.3	4.6
3	66.8	71.4	73.2	77.9	80.2	11.1	4.6
4	68.7	72.9	74.1	78.9	81.2	10.2	4.2
5	70.3	73.8	74.9	80.3	82.7	10.0	3.5
6	71.0	74.6	75.9	81.1	83.3	10.1	3.6
7	70.8	74.5	76.0	81.0	82.8	10.2	3.7
8	70.4	74.3	76.0	80.7	81.7	10.3	3.9
9	71.8	75.8	77.5	82.3	82.3	10.5	4.0
10	72.9	77.0	78.6	83.8	83.8	10.9	4.1
11	74.6	78.5	79.4	85.1	85.1	10.5	3.9
12	74.7	78.9	79.5	85.5	85.5	10.8	4.2
13	75.1	79.4	80.0	85.7	85.7	10.6	4.3
14	75.0	79.6	80.6	85.8	85.8	10.8	4.6
15	75.1	80.1	81.4	86.4	86.4	11.3	5.0
16	75.9	80.9	82.2	87.8	87.8	11.9	5.0
17	76.7	81.6	83.1	88.8	88.8	12.1	5.1
18	76.0	83.3	84.2	89.5	89.5	11.5	5.3
19	78.2	84.0	84.9	89.9	89.9	11.7	5.8
20	78.3	84.2	85.4	90.7	90.7	12.4	5.9
21	78.1	84.0	85.5	91.2	91.2	13.1	5.9
22	78.3	84.1	85.8	91.5	91.5	13.2	5.8
OH → 23	78.5	84.3	86.0	91.6	91.6	13.1	5.8
24	78.1	84.3	86.3	91.6	91.6	13.5	6.2
25	77.7	83.8	85.9	91.4	91.4	13.7	6.1
26	77.0	83.5	85.7	91.2	91.2	14.2	6.5
27	77.1	83.6	85.5	91.1	91.1	14.0	6.5
28	76.9	83.6	85.7	90.8	90.8	13.9	6.7
29	76.7	83.0	85.3	90.4	90.4	13.7	6.3
30	76.2	82.0	84.5	89.3	89.3	13.1	5.8
31	75.8	81.3	83.4	88.4	89.5	12.6	5.5
32	75.1	80.8	82.0	88.2	89.6	13.1	5.7
33	74.0	80.0	80.3	87.7	89.2	13.7	6.0
34	72.2	78.4	78.4	86.3	87.7	14.1	6.2
35	70.7	76.6	76.7	83.7	83.7	13.0	5.9
36	69.4	74.7	75.4	81.7	82.9	12.3	5.3
37	70.0	75.2	76.4	82.4	83.7	12.4	5.2
38	71.0	76.1	77.2	83.0	84.6	12.0	5.1
39	70.8	75.9	77.1	82.9	84.2	12.1	5.1
40	69.7	75.0	76.0	82.1	82.1	12.4	5.3
41	67.9	73.3	74.9	80.5	80.5	12.6	5.4
42	66.9	72.6	74.7	78.9	78.9	12.0	5.7
43	66.8	72.2	74.5	78.3	78.3	11.5	5.4

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 26, 60 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DEB	OASPL	PNL	PNLT	PNL-DBA	DEB-DBA
1	65.5	71.5	75.1	78.1	78.1	12.6	6.0
2	66.5	72.6	75.7	79.5	79.5	13.0	6.1
3	66.6	72.8	76.5	79.8	79.8	13.2	6.2
4	66.8	73.3	77.0	80.3	80.3	13.5	6.5
5	68.7	75.1	77.8	81.6	81.6	12.9	6.4
6	71.0	77.1	79.1	84.0	84.0	13.0	6.1
7	73.1	79.4	80.5	86.0	87.2	12.9	6.3
8	74.1	80.5	81.3	87.5	87.5	13.4	6.4
9	74.9	81.6	82.1	88.4	89.4	13.5	6.7
10	75.8	82.3	82.5	89.3	90.5	13.5	6.5
11	76.2	82.4	82.7	89.2	90.5	13.0	6.2
12	76.3	82.4	82.6	89.2	89.2	12.9	6.1
13	76.1	82.2	82.7	89.3	89.3	13.2	6.1
ON → 14	76.3	82.8	83.1	89.7	89.7	13.4	6.5
15	76.1	83.0	83.6	89.9	89.9	13.8	6.9
16	75.9	83.0	83.6	89.8	89.8	13.9	7.1
17	76.2	83.3	83.5	89.8	89.8	13.6	7.1
18	76.1	82.9	82.9	89.5	89.5	13.4	6.8
19	75.9	82.2	82.5	88.7	88.7	12.8	6.3
20	75.3	81.1	82.1	87.6	87.6	12.3	5.8
21	75.4	80.9	81.9	87.3	88.7	11.9	5.5
22	75.4	81.0	81.4	87.6	88.8	12.2	5.6
23	75.4	80.3	80.2	87.6	88.6	12.2	5.4
24	74.7	80.1	79.0	86.9	86.9	12.2	5.4
25	73.8	78.8	77.5	85.8	85.8	12.0	5.0
26	72.0	76.9	76.3	83.8	83.8	11.8	4.9
27	71.6	76.0	75.7	82.6	82.6	11.0	4.4
28	71.6	75.8	75.7	81.8	83.1	10.2	4.2
29	71.4	75.6	75.8	81.7	83.3	10.3	4.2
30	71.2	75.7	76.0	81.9	83.3	10.7	4.5
31	71.9	76.5	76.6	82.7	84.2	10.8	4.6
32	72.3	77.0	76.8	83.0	84.2	10.7	4.7
33	71.5	76.1	75.9	82.3	82.3	10.8	4.6
34	69.8	74.4	74.3	80.8	80.8	11.0	4.6
35	67.7	72.3	73.0	79.5	81.0	11.8	4.6
36	66.1	71.1	72.7	78.4	80.2	12.3	5.0
37	64.7	70.0	72.7	77.8	79.4	13.1	5.3
38	66.6	71.4	73.1	78.8	79.8	12.2	4.8
39	68.2	72.7	73.9	80.0	80.0	11.8	4.5
40	69.0	73.8	74.1	80.7	80.7	11.7	4.8
41	68.8	73.5	74.0	80.5	80.5	11.7	4.7
42	67.9	72.6	73.7	79.6	81.0	11.7	4.7
43	67.2	71.4	73.6	78.8	80.3	11.6	4.2
44	66.1	70.5	73.2	78.1	79.6	12.0	4.4
45	64.8	69.6	72.5	77.1	78.4	12.3	4.8
46	62.9	68.1	71.7	76.0	77.2	13.1	5.2

TABLE C-II

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 28, 68 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	66.1	72.3	74.2	79.4	80.5	13.3	6.2
2	66.8	73.1	74.6	80.3	81.3	13.5	6.3
3	67.8	74.0	75.1	81.3	81.3	13.5	6.2
4	69.3	75.8	76.3	82.9	82.9	13.6	6.5
5	71.3	77.7	77.9	84.7	85.7	13.4	6.4
6	73.2	79.9	79.6	86.9	86.9	13.7	6.7
7	75.3	82.1	81.3	88.8	88.8	13.5	6.8
8	76.3	83.2	82.5	90.0	91.3	13.7	6.9
9	76.9	83.6	83.0	90.3	91.6	13.4	6.7
OK → 10	77.4	83.7	83.4	90.6	90.6	13.2	6.3
11	78.3	84.2	83.8	91.4	91.4	13.1	5.9
12	78.5	84.5	84.2	91.8	91.8	13.3	6.0
13	78.4	84.7	84.2	92.1	92.1	13.7	6.3
14	78.3	84.8	84.1	92.1	92.1	13.8	6.5
15	77.9	84.4	83.8	91.7	91.7	13.8	6.5
16	77.5	83.6	83.5	90.8	90.8	13.3	6.1
17	76.5	82.3	82.7	89.2	89.2	12.7	5.8
18	76.3	81.4	81.8	88.3	89.7	12.0	5.1
19	76.0	81.3	80.7	88.6	89.8	12.6	5.3
20	75.9	80.8	79.9	88.3	89.4	12.4	4.9
21	75.3	80.5	79.1	87.9	87.9	12.6	5.2
22	74.7	79.6	78.3	86.8	86.8	12.1	4.9
23	75.0	79.7	78.1	86.7	86.7	11.7	4.7
24	74.3	79.0	77.5	85.8	85.8	11.5	4.7
25	73.9	78.5	77.3	85.0	85.0	11.1	4.6
26	73.3	78.0	77.1	84.1	85.5	10.8	4.7
27	74.2	78.8	77.7	85.0	86.6	10.8	4.6
28	74.1	78.7	77.9	85.1	86.3	11.0	4.6
29	73.6	78.3	77.7	84.7	84.7	11.1	4.7
30	73.1	77.4	77.1	83.5	83.5	10.4	4.3
31	74.1	77.8	77.2	84.3	86.2	10.2	3.7
32	74.0	77.6	76.8	84.2	86.3	10.2	3.6
33	73.2	77.0	76.3	83.6	85.7	10.4	3.8
34	71.0	75.4	75.2	81.7	83.0	10.7	4.4
35	69.9	74.4	75.0	80.8	80.8	10.9	4.5
36	69.4	73.9	74.9	80.6	82.0	11.2	4.5
37	68.7	73.5	74.8	79.7	81.6	11.0	4.8

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 29, 68 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	64.8	69.8	73.9	76.8	76.8	12.0	5.0
3	66.1	71.6	73.8	78.8	78.8	12.7	5.5
5	67.5	73.6	74.9	80.9	80.9	13.4	6.1
7	68.7	74.7	76.7	82.4	82.4	13.7	6.0
9	71.4	77.5	78.5	84.4	84.4	13.0	6.1
11	74.4	80.7	80.4	87.7	87.7	13.3	6.3
OH 13 → 14	76.3	82.4	81.8	89.7	91.2	13.4	6.1
15	76.7	82.5	82.4	89.8	91.0	13.1	5.8
17	77.2	83.1	82.9	89.9	89.9	12.7	5.9
19	78.1	84.2	84.0	91.3	91.3	13.2	6.1
20	78.5	84.8	84.4	91.9	91.9	13.4	6.3
22	77.7	84.0	83.4	91.1	91.1	13.4	6.3
24	77.5	83.4	82.2	90.7	90.7	13.2	5.9
26	77.2	83.2	81.3	90.2	90.2	13.0	6.0
28	76.3	81.7	80.3	89.0	89.0	12.7	5.4
30	75.5	80.2	79.4	86.7	86.7	11.2	4.7
32	75.4	79.9	79.0	85.1	86.1	10.7	4.5
34	74.3	79.0	77.8	85.5	85.5	11.2	4.7
36	72.3	77.2	76.0	83.9	83.9	11.6	4.9
38	71.2	75.7	75.5	82.1	83.3	10.9	4.5
40	72.7	77.2	76.8	83.7	83.7	11.0	4.5
42	74.7	78.7	77.5	85.3	85.3	10.6	4.0
44	74.5	78.8	77.1	85.4	86.7	10.9	4.3
46	72.5	76.7	75.6	83.2	84.9	10.7	4.2
48	69.3	74.1	73.4	80.7	80.7	11.4	4.8
50	69.7	74.3	73.5	81.4	82.5	11.7	4.6
52	68.7	73.1	72.9	80.3	81.7	11.6	4.4
54	69.6	73.9	73.3	80.2	81.7	10.6	4.3
56	69.5	73.6	73.0	80.0	81.3	10.5	4.1
58	66.7	70.2	71.0	77.4	77.4	10.7	3.5

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 30, 75 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	60.0	65.7	71.0	72.8	73.9	12.8	5.7
3	62.7	68.1	72.6	75.3	75.3	12.6	5.4
5	65.1	70.9	74.1	77.7	77.7	12.6	5.8
7	68.2	74.7	75.8	81.5	81.5	13.3	6.5
9	70.9	77.5	78.8	84.7	85.9	13.8	6.6
11	73.4	79.9	81.5	87.5	87.5	14.1	6.5
OH → 13	75.1	81.5	82.4	89.0	90.1	13.9	6.4
15	75.9	82.2	82.8	88.9	90.7	13.0	6.3
17	75.5	82.2	82.8	89.3	89.3	13.8	6.7
19	75.4	81.8	81.9	89.0	90.1	13.6	6.4
21	74.2	80.0	80.1	87.0	88.7	12.8	5.8
23	72.0	77.2	77.0	84.2	85.4	12.2	5.2
25	70.0	75.2	74.3	81.8	81.8	11.8	5.2
27	69.9	75.2	74.4	81.9	81.9	12.0	5.3
29	70.1	74.8	74.0	81.4	81.4	11.3	4.7
31	70.4	74.7	74.4	81.3	81.3	10.9	4.3
33	74.3	78.3	77.6	84.6	84.6	10.3	4.0
35	72.7	76.9	77.1	83.5	85.1	10.8	4.2
37	69.0	73.7	74.7	80.3	80.3	11.3	4.7
39	71.4	75.6	75.4	82.0	83.4	10.6	4.2
41	72.0	75.7	75.6	81.9	83.6	9.9	3.7
43	69.3	73.6	74.0	80.4	82.1	11.1	4.3
45	62.7	67.9	68.3	74.6	74.6	11.9	5.2
47	68.1	72.5	73.0	79.0	80.6	10.9	4.5
49	66.9	71.3	72.6	78.0	80.1	11.1	4.4
51	63.1	68.2	70.8	74.4	76.1	11.3	5.1
53	62.6	67.8	70.7	73.9	75.7	11.3	5.2
55	62.5	68.1	70.6	74.7	76.1	12.2	5.6

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 31, 75 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.5	68.4	73.9	75.1	76.3	12.6	5.9
3	63.0	68.8	73.8	75.9	75.9	12.9	5.8
5	66.2	72.5	75.1	79.3	79.3	13.1	6.3
7	67.3	74.2	75.9	81.3	82.4	14.0	6.9
9	68.4	74.8	76.5	82.1	83.3	13.7	6.4
11	72.5	78.5	79.5	85.7	85.7	13.2	6.0
13	75.2	81.4	81.9	88.4	88.4	13.2	6.2
OH 15 → 16	76.7	82.5	82.8	89.7	91.0	13.0	5.8
17	76.8	82.6	82.9	89.6	90.8	12.8	5.8
19	77.1	83.1	83.3	90.1	90.1	13.0	6.0
21	77.7	83.5	83.3	90.7	91.8	13.0	5.8
23	77.5	83.5	82.8	90.4	91.9	12.9	6.0
25	77.0	82.7	81.9	90.0	91.3	13.0	5.7
27	75.5	81.1	80.3	88.2	88.2	12.7	5.6
29	75.6	81.1	80.2	88.0	88.0	12.4	5.5
31	73.2	77.7	78.0	84.5	84.5	11.3	4.5
33	71.2	76.0	76.0	82.3	82.3	11.1	4.8
35	72.1	77.6	76.6	83.7	83.7	11.6	5.5
37	72.7	77.5	76.7	84.1	85.4	11.4	4.8
39	72.1	76.2	75.9	82.9	82.9	10.8	4.1
41	71.2	75.5	75.0	82.0	83.2	10.8	4.3
43	68.5	73.1	73.0	79.4	80.8	10.9	4.6
45	66.6	72.0	72.4	78.2	79.4	11.6	5.4
47	68.9	73.7	73.6	80.1	80.1	11.2	4.8
49	72.4	76.3	75.7	82.6	82.6	10.2	3.9
51	72.1	75.6	75.2	82.6	83.6	10.5	3.5
53	70.0	74.1	73.8	80.8	82.5	10.8	4.1
55	72.8	76.2	75.7	82.5	84.0	9.7	3.4
57	69.4	73.1	73.8	79.4	80.8	10.0	3.7
59	63.6	69.5	71.5	75.3	76.4	11.7	5.9
61	65.0	70.4	71.4	76.3	77.6	11.3	5.4
63	66.1	70.7	71.8	76.7	78.7	10.6	4.6

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 33, 75 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
2	66.2	72.6	76.3	79.8	79.8	13.6	6.4
3	67.0	73.5	76.9	80.8	80.8	13.8	6.5
4	67.9	74.3	77.1	81.8	81.8	13.9	6.4
5	68.9	75.1	77.1	82.7	82.7	13.8	6.2
6	70.3	76.2	77.6	83.7	83.7	13.4	5.9
7	71.8	77.7	78.7	85.3	85.3	13.5	5.9
8	73.2	79.5	79.6	87.0	87.0	13.8	6.3
9	74.8	81.1	80.8	88.3	88.3	13.5	6.3
10	76.3	82.4	81.8	89.4	89.4	13.1	6.1
11	77.0	83.0	82.5	90.0	90.0	13.0	6.0
12	77.3	83.5	83.0	90.5	90.5	13.2	6.2
OH, → 13	77.4	83.7	83.3	90.6	90.6	13.2	6.3
14	77.7	83.8	83.3	90.5	90.5	12.8	6.1
15	78.0	84.0	83.4	90.8	90.8	12.8	6.0
16	78.6	84.7	83.8	91.7	91.7	13.1	6.1
17	78.7	84.8	84.2	92.0	92.0	13.3	6.1
18	78.4	84.5	84.2	91.7	91.7	13.3	6.1
19	77.9	83.8	84.0	91.1	91.1	13.2	5.9
20	77.8	83.9	83.7	90.9	90.9	13.1	6.1
21	78.1	84.0	83.6	91.2	91.2	13.1	5.9
22	78.3	84.0	83.2	91.2	91.2	12.9	5.7
23	78.9	84.4	83.0	91.6	91.6	12.7	5.5
24	78.6	83.9	82.2	91.1	91.1	12.5	5.3
25	77.7	82.9	81.4	90.2	90.2	12.5	5.2
26	76.7	81.8	80.5	89.2	89.2	12.5	5.1
27	76.6	81.1	80.0	88.5	88.5	11.9	4.5
28	76.4	80.8	79.5	88.1	88.1	11.7	4.4
29	75.4	79.6	78.5	86.7	86.7	11.3	4.2
30	74.0	78.6	77.9	85.6	85.6	11.6	4.6
31	74.0	78.5	78.1	85.0	86.1	11.0	4.5
32	75.0	79.6	78.9	86.1	86.1	11.1	4.6
33	75.4	80.1	79.1	86.5	87.6	11.1	4.7
34	74.6	79.3	78.4	85.6	86.8	11.2	4.7
35	72.9	77.3	77.0	84.1	84.1	11.2	4.4
36	71.7	76.2	75.6	83.2	83.2	11.5	4.5
37	71.5	76.2	75.5	83.1	84.1	11.6	4.7
38	71.4	76.1	75.7	83.1	84.6	11.7	4.7
39	72.0	76.3	76.2	83.2	85.0	11.2	4.3
40	72.4	76.1	76.2	83.1	84.4	10.7	3.7
41	72.2	76.0	75.9	82.8	82.8	10.6	3.8
42	70.9	74.9	75.0	81.8	81.8	10.9	4.0
43	69.1	73.7	74.2	80.4	81.4	11.3	4.6

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 36, 82 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.1	67.1	71.3	74.3	74.3	12.2	5.0
3	64.8	70.2	73.9	77.2	77.2	12.4	5.4
5	67.2	73.0	74.8	80.2	80.2	13.0	5.8
7	67.9	74.4	75.1	81.5	81.5	13.6	6.5
9	71.7	77.7	78.2	84.9	86.0	13.2	6.0
11	74.9	81.0	80.8	87.8	87.8	12.9	6.1
13	75.4	81.5	81.8	88.5	88.5	13.1	6.1
OH → 15	76.7	82.9	83.0	89.9	89.9	13.2	6.2
17	77.5	83.9	83.4	91.1	91.1	13.6	6.4
18	77.8	84.0	83.5	91.2	91.2	13.4	6.2
20	77.3	83.4	83.0	90.5	90.5	13.2	6.1
22	77.4	82.9	82.2	90.1	90.1	12.7	5.5
24	76.9	82.6	81.4	89.9	89.9	13.0	5.7
26	76.0	81.4	80.4	88.6	88.6	12.6	5.4
28	75.9	80.9	79.6	88.1	88.1	12.2	5.0
30	75.0	79.6	78.1	86.0	87.1	11.0	4.6
32	75.1	79.7	78.3	86.2	86.2	11.1	4.6
34	71.7	76.5	75.9	83.0	84.2	11.3	4.8
36	68.1	73.2	74.0	79.9	81.4	11.8	5.1
38	70.9	75.9	75.1	82.6	82.6	11.7	5.0
40	71.8	76.5	74.9	82.9	84.6	11.1	4.7
42	70.8	75.1	74.5	81.3	82.7	10.5	4.3
44	68.4	73.0	73.2	79.7	79.7	11.3	4.6
46	70.2	74.6	73.9	81.3	81.3	11.1	4.4
48	71.6	75.1	74.9	81.8	83.4	10.2	3.5
50	68.1	72.4	73.6	79.4	80.9	11.3	4.3
52	65.4	70.2	72.1	77.1	77.1	11.7	4.8
54	63.9	69.5	71.3	75.8	77.0	11.9	5.6
56	66.4	71.2	72.5	77.1	78.7	10.7	4.8

TABLE C-V

NOISE LEVEL TIME HISTORY DATA

BELL 47 G

OCTOBER 5, 1976

EVENT 41, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.3	71.5	74.7	78.4	78.4	13.1	6.2
2	66.4	72.6	75.3	79.4	79.4	13.0	6.2
3	66.9	73.4	75.8	80.1	80.1	13.2	6.5
4	67.3	74.0	76.3	80.8	80.8	13.5	6.7
5	68.4	75.1	77.0	81.8	81.8	13.4	6.7
6	71.2	77.4	79.0	84.0	84.0	12.8	6.2
7	73.7	80.1	81.8	86.9	86.9	13.2	6.4
8	76.9	82.7	83.9	89.2	89.2	12.3	5.8
9	78.0	83.8	85.0	90.4	90.4	12.4	5.8
10	78.5	84.3	85.4	90.8	90.8	12.3	5.8
11	77.3	83.5	84.7	90.1	90.1	12.8	6.2
OH → 12	75.9	82.4	83.6	89.2	90.2	13.3	6.5
13	74.4	81.0	82.1	87.9	88.9	13.5	6.6
14	74.1	80.6	81.5	87.6	87.6	13.5	6.5
15	73.9	80.3	81.4	87.7	88.7	13.8	6.4
16	74.0	80.3	81.5	87.7	89.0	13.7	6.3
17	73.9	80.2	81.6	87.7	87.7	13.8	6.3
18	74.0	80.1	81.4	87.5	88.7	13.5	6.1
19	73.4	79.7	81.2	87.0	88.1	13.6	6.3
20	73.1	79.3	80.8	86.6	87.7	13.5	6.2
21	72.2	78.5	80.4	85.8	85.8	13.6	6.3
22	71.6	77.9	79.8	84.9	84.9	13.3	6.3
23	71.0	77.4	79.1	84.2	84.2	13.2	6.4
24	71.2	77.4	78.3	84.3	84.3	13.1	6.2
25	70.1	77.1	77.3	84.0	84.0	12.8	5.9
26	70.8	76.4	76.5	83.1	84.1	12.3	5.6
27	69.8	75.2	75.7	81.7	83.1	11.9	5.4
28	69.7	74.5	75.1	81.1	83.0	11.4	4.8
29	69.5	74.1	74.7	80.9	82.7	11.4	4.6
30	69.2	73.7	74.4	80.4	81.9	11.2	4.5
31	68.2	72.6	73.9	79.4	79.4	11.2	4.4
32	67.2	71.3	73.4	78.5	79.8	11.3	4.1
33	66.3	71.1	73.0	77.8	79.5	11.5	4.8

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 19, 6 DEGREE APPROACH, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-15.5	-11.0	-6.5	-2.0	0	2.5	7.0	11.5	16.0	17.5
17	57.0	62.2	60.9	62.3	67.4	68.1	61.0	55.6	53.5	55.6
18	61.0	59.9	63.5	65.8	66.7	65.1	65.4	63.3	61.9	61.9
19	62.2	62.9	64.0	66.7	67.7	66.2	62.9	61.3	58.7	58.7
20	56.9	55.6	56.2	60.1	59.5	63.7	62.8	62.3	58.8	59.5
21	55.2	55.0	55.2	57.9	59.5	61.7	64.1	66.6	69.6	68.6
22	61.0	58.8	56.1	66.2	67.4	63.2	64.7	66.0	64.1	63.1
23	54.2	54.0	60.8	68.5	72.8	72.7	59.8	67.7	68.2	67.8
24	55.1	60.8	68.6	75.2	76.2	73.8	60.0	63.6	61.8	62.1
25	57.9	65.4	69.7	71.3	71.3	71.9	64.1	58.9	58.7	59.1
26	63.5	69.9	70.1	66.9	70.5	65.3	66.3	57.6	58.9	57.7
27	63.5	69.4	65.9	72.4	73.4	70.9	64.6	58.6	56.4	56.0
28	57.0	61.1	68.0	66.5	67.5	66.8	58.0	61.1	53.1	52.3
29	54.4	65.2	60.8	67.1	68.4	65.4	61.3	59.6	49.7	49.8
30	51.8	57.4	61.4	64.4	65.8	63.0	58.8	54.0	50.1	48.9
31	53.9	62.2	60.7	63.2	64.7	62.2	59.7	51.4	52.2	49.2
32	50.3	61.5	59.2	61.7	62.1	60.1	56.1	51.9	49.8	44.8
33	45.4	55.4	55.8	59.7	59.9	59.5	56.3	48.7	50.1	48.6
34	42.9	54.2	56.3	59.7	59.4	59.3	55.2	47.4	43.1	47.9
35	36.9	51.9	53.1	55.1	56.0	55.8	51.1	41.1	39.4	36.6
36	35.0	45.4	46.6	51.9	53.4	53.3	47.0	36.4	35.3	35.0
37	35.0	39.2	40.2	46.8	48.4	47.2	39.9	35.0	35.0	35.0
38	35.0	35.6	36.4	41.8	44.2	41.2	35.8	35.1	35.8	35.0
39	37.0	36.8	37.2	37.9	40.3	38.3	36.3	35.9	37.1	36.3
40	35.2	35.2	35.2	35.2	35.8	35.7	35.0	35.1	35.0	35.0
A	65.0	73.1	73.0	75.2	76.2	74.6	69.2	65.9	64.4	63.4
D	68.8	76.7	76.8	80.0	81.1	79.9	73.8	71.6	71.0	70.4
OASPL	70.9	75.8	77.0	81.4	83.2	81.9	74.8	74.4	74.0	73.4
PNL	76.4	82.8	83.7	87.0	88.3	86.5	81.3	78.5	77.6	77.1
PNLT	76.4	84.8	85.2	87.0	88.3	86.5	81.3	78.5	78.8	78.5

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 26, 60 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.0	-5.0	0	3.0	5.0	10.0	15.0	20.0	25.0	28.0
17	59.2	64.6	65.2	63.2	59.8	54.4	53.5	55.7	53.7	53.3
18	61.7	65.8	65.4	66.3	67.4	67.1	64.0	62.0	59.6	56.6
19	66.4	69.4	71.4	69.8	66.8	61.0	59.8	60.1	58.0	56.9
20	57.3	59.4	55.8	59.6	55.6	56.4	53.9	55.3	55.8	57.6
21	54.5	55.7	59.3	57.4	55.2	66.2	66.5	68.8	70.0	71.4
22	62.6	53.9	64.1	62.6	56.3	60.5	59.1	60.7	61.2	62.5
23	50.0	55.9	69.2	74.8	74.5	59.6	65.7	63.9	62.4	55.9
24	53.9	66.4	73.6	70.8	67.5	55.7	52.2	52.7	61.1	66.6
25	55.4	64.6	61.3	66.1	68.0	65.0	54.0	51.4	59.3	65.1
26	62.5	62.7	68.9	68.1	63.3	66.4	61.2	52.1	56.7	63.4
27	57.2	58.6	68.0	68.4	67.8	64.2	63.7	56.5	50.9	57.0
28	51.8	62.7	67.8	66.1	63.2	59.9	61.5	59.3	53.9	53.6
29	59.1	60.6	64.7	63.9	66.2	64.4	53.6	59.0	56.0	58.6
30	55.8	60.7	64.2	63.3	62.9	60.0	57.8	53.5	54.2	58.5
31	57.0	60.0	64.2	66.1	62.5	64.3	58.9	54.9	49.1	55.1
32	51.9	57.0	61.7	61.3	61.2	60.4	54.7	51.9	46.4	45.3
33	48.0	56.5	60.8	61.6	60.6	58.4	51.6	46.9	45.5	43.2
34	48.2	54.4	60.4	61.5	58.7	57.4	51.7	47.7	41.3	42.4
35	45.0	51.7	58.6	59.1	56.0	52.3	45.2	42.2	35.8	36.2
36	40.3	47.8	57.2	56.9	52.1	46.8	37.9	35.4	35.0	35.0
37	35.3	42.2	53.8	51.9	46.7	40.8	35.0	35.0	35.0	35.0
38	40.4	41.8	49.7	46.9	43.3	41.6	40.5	39.9	41.1	41.1
39	40.2	40.3	44.1	42.4	40.6	40.3	40.0	40.1	41.2	40.8
40	38.4	38.0	38.7	37.7	37.8	37.3	37.3	37.8	37.8	38.5
A	64.8	69.3	74.4	74.5	73.0	71.0	66.9	64.6	62.9	66.7
D	69.0	73.7	79.4	80.0	78.1	75.2	71.2	69.5	69.6	72.1
OASPL	71.9	75.4	80.9	81.0	79.2	75.0	72.7	72.3	72.6	74.6
PNL	76.8	80.7	86.8	86.9	85.5	82.4	78.6	76.2	76.1	78.0
PNLT	78.6	82.1	86.8	88.2	86.5	83.8	79.7	77.3	76.6	78.6

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 30, 75 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-9.0	-3.5	0	2.0	7.5	13.0	18.5	24.0	29.5	31.0
17	58.2	60.2	60.0	59.1	56.6	52.6	53.3	54.5	53.7	50.9
18	61.3	65.2	65.6	67.8	68.3	59.7	61.0	63.5	58.0	58.4
19	65.1	68.5	69.2	65.5	59.3	55.9	60.0	62.2	60.7	57.4
20	56.9	55.9	53.7	54.4	57.8	55.4	53.4	53.0	53.9	54.5
21	52.2	52.3	60.0	59.2	66.0	69.9	64.4	63.5	67.2	66.2
22	60.4	57.3	62.4	60.7	54.0	61.8	60.0	60.8	64.3	62.3
23	47.3	62.9	72.0	74.5	65.0	60.2	61.1	67.1	58.8	55.9
24	50.8	69.0	69.3	66.5	59.2	48.4	53.4	56.5	62.9	61.5
25	57.3	64.2	61.1	61.8	64.2	52.5	53.8	54.6	65.3	63.8
26	60.4	58.1	67.5	67.9	64.5	58.1	49.1	54.0	66.5	63.0
27	58.2	64.5	67.0	66.8	57.9	59.1	50.9	47.4	61.7	60.0
28	53.6	63.1	64.9	64.9	63.0	57.0	53.2	42.2	55.5	57.9
29	58.7	63.1	62.8	62.2	60.6	53.2	56.3	51.2	55.3	55.9
30	54.9	61.3	62.4	61.6	61.8	57.4	54.4	55.4	54.9	54.3
31	56.5	60.8	61.6	62.0	59.8	56.0	50.5	57.4	54.5	52.1
32	51.8	58.4	60.0	59.8	57.1	52.8	52.5	52.1	49.8	46.1
33	48.1	56.2	58.5	58.9	55.9	48.2	46.9	48.2	48.6	43.0
34	48.2	55.6	58.3	59.2	54.3	46.3	44.7	47.1	46.1	39.5
35	43.7	51.7	56.9	57.6	51.4	38.1	36.5	40.0	37.1	35.0
36	39.5	48.3	54.5	55.6	46.9	35.0	35.0	35.6	35.0	35.0
37	35.0	43.3	51.0	52.0	40.5	35.0	35.0	35.0	35.0	35.0
38	35.0	37.5	44.7	47.6	35.6	35.0	35.0	35.0	35.0	35.0
39	38.1	38.2	40.1	41.7	38.8	37.9	38.7	39.3	38.9	39.3
40	39.2	38.3	38.2	38.3	37.7	38.3	38.1	37.8	37.3	37.2
A	64.7	70.3	72.3	72.6	69.1	64.4	62.0	63.5	66.8	65.3
D	68.3	74.8	77.8	78.1	73.3	69.7	67.6	69.5	72.0	70.2
OASPL	71.0	75.6	79.0	79.9	74.4	72.3	69.9	71.7	73.7	71.9
PNL	75.6	81.8	84.6	85.6	80.6	76.4	73.9	76.3	79.0	76.6
PNLT	77.1	81.8	84.6	85.6	81.9	76.4	75.2	77.6	79.0	77.1

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 31, 75 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-9.5	-6.0	-2.5	0	1.0	4.0	4.5	8.0	11.5	15.0	18.0
17	64.4	63.7	61.9	61.6	61.5	60.5	60.8	60.4	55.8	54.7	53.3
18	63.9	65.0	63.5	65.9	66.5	69.0	68.8	67.3	63.3	58.1	59.1
19	71.0	72.8	72.7	73.5	73.7	71.2	70.2	63.7	57.5	56.0	58.3
20	57.9	57.6	56.4	54.3	54.5	53.9	53.8	53.7	53.6	55.7	59.2
21	53.9	54.7	51.9	58.7	60.2	62.3	61.5	66.3	71.7	70.7	70.8
22	59.8	55.3	61.5	66.9	68.3	67.2	65.4	63.9	66.0	64.9	65.5
23	47.8	59.2	66.0	70.0	72.5	76.6	76.1	66.6	55.5	57.0	55.9
24	54.6	67.7	73.0	74.7	74.9	71.0	69.6	66.7	59.1	55.0	56.9
25	61.9	67.7	66.6	61.4	62.2	62.3	64.8	70.7	64.7	54.7	55.4
26	57.5	61.0	61.3	68.3	70.1	69.4	68.1	67.9	69.9	60.7	57.4
27	61.0	59.1	69.5	67.6	68.2	69.7	69.2	61.7	67.7	62.7	59.6
28	52.7	63.4	62.7	66.5	67.9	64.3	63.1	65.6	57.5	59.1	59.8
29	57.9	60.4	64.4	64.3	65.2	64.8	65.4	63.2	60.9	51.4	56.5
30	55.8	60.8	64.1	63.5	64.4	64.4	64.2	65.8	61.0	59.9	54.8
31	57.1	61.7	64.1	64.8	65.4	67.8	67.7	65.0	68.4	59.0	58.4
32	54.3	58.2	60.7	62.8	62.6	63.1	62.8	62.5	59.1	53.9	54.6
33	52.8	55.4	59.0	62.4	63.1	63.2	62.7	61.0	57.8	51.8	52.4
34	51.3	53.9	59.5	62.7	63.6	63.0	62.4	60.5	55.3	50.6	48.4
35	47.3	49.5	57.1	60.2	60.9	60.3	59.4	56.1	50.2	44.4	42.8
36	43.9	46.9	55.3	58.3	59.1	57.7	56.8	52.6	44.7	38.5	36.1
37	37.5	40.7	50.4	54.6	56.0	53.7	52.9	46.4	37.6	35.0	35.0
38	36.3	36.1	42.9	49.3	51.2	48.8	47.1	39.0	35.0	35.0	35.0
39	39.1	39.0	40.3	44.0	45.5	42.9	41.8	38.9	38.7	39.5	38.3
40	38.5	38.2	38.8	41.0	41.6	39.6	39.4	38.9	38.2	38.5	37.7
A	65.5	69.8	73.1	74.5	75.3	75.9	75.5	73.4	71.4	66.6	66.0
D	70.7	74.0	78.2	80.1	81.0	81.3	80.6	78.8	75.7	71.8	71.5
OASPL	74.6	76.8	78.9	80.4	81.2	81.3	80.7	77.8	76.6	73.7	73.8
PNL	77.3	81.4	85.5	87.6	88.5	88.3	87.7	85.3	83.0	78.1	77.9
PNLT	78.5	82.6	85.5	87.6	88.5	89.6	89.1	86.4	83.0	79.7	79.1

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 33, 75 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.5	-5.0	-1.5	0	2.0	4.5	5.5	9.0	12.5	16.0	18.0
17	67.2	67.0	62.2	67.0	62.3	60.0	60.8	59.8	57.6	57.7	54.7
18	66.2	66.8	65.2	66.2	66.0	67.2	67.7	67.0	64.1	63.3	60.6
19	73.6	74.3	75.4	75.7	75.5	74.4	73.9	68.2	64.4	61.4	60.4
20	64.1	62.7	62.5	60.4	58.9	59.0	57.8	55.7	57.6	61.8	61.2
21	60.0	56.3	60.7	59.4	59.6	59.5	57.6	62.2	68.0	69.7	69.5
22	64.2	59.7	65.4	67.8	67.8	67.6	63.9	64.9	68.7	68.1	67.1
23	58.1	60.6	66.6	67.7	70.0	75.1	75.0	66.5	58.0	60.6	60.2
24	58.2	70.3	73.4	75.4	76.5	75.8	73.7	63.1	61.9	55.7	57.8
25	63.4	68.5	64.6	62.9	63.6	64.3	66.0	69.6	68.3	57.8	57.4
26	61.5	59.6	67.3	70.9	70.1	68.5	67.4	69.8	71.5	64.9	58.7
27	61.4	63.1	68.3	68.1	68.5	71.2	69.8	61.4	70.0	68.1	64.4
28	55.9	65.7	64.8	68.0	67.4	64.8	65.8	66.9	59.0	64.9	63.0
29	60.3	62.4	64.0	65.8	64.1	67.7	68.5	64.2	63.8	56.8	58.0
30	57.9	61.3	63.6	66.2	65.4	66.4	66.7	66.2	62.9	57.4	53.2
31	58.1	61.3	65.9	67.0	66.9	69.6	69.1	64.8	64.5	58.6	57.6
32	54.6	58.8	62.0	64.2	64.6	65.6	65.4	63.7	61.6	54.8	55.3
33	52.9	55.9	60.8	64.2	64.1	63.9	64.0	62.1	60.0	52.2	53.0
34	51.6	55.6	59.7	63.7	64.9	64.2	63.1	59.6	59.6	50.9	49.3
35	47.9	52.6	57.5	62.3	61.7	61.1	59.5	55.6	54.8	44.9	44.5
36	42.9	49.3	55.8	61.1	59.9	58.2	57.2	52.1	49.2	39.5	39.5
37	36.4	44.7	50.5	55.9	57.2	53.7	53.2	46.4	41.9	35.0	35.0
38	35.0	38.4	45.0	50.5	51.8	47.8	46.5	38.4	35.4	35.0	35.0
39	38.4	38.4	41.8	45.5	46.0	43.3	41.9	38.9	38.8	38.9	38.4
40	38.7	38.1	38.5	40.5	41.0	39.9	39.4	38.3	39.3	38.3	38.8
A	67.2	71.4	73.8	76.3	76.0	76.7	76.5	74.2	73.8	69.5	67.4
D	72.4	76.2	78.9	81.4	81.7	82.3	81.6	78.4	78.4	74.1	72.3
OASPL	76.9	79.0	80.3	81.7	81.5	82.5	81.7	78.1	77.9	75.8	74.4
PNL	79.0	83.2	86.5	88.9	89.3	89.2	88.4	85.3	85.2	81.2	79.2
PNLT	80.1	84.2	87.5	88.9	89.3	90.4	89.4	86.6	85.2	81.2	80.3

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 36, 82 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.0	-3.5	0	1.0	5.5	10.0	14.5	19.0	23.5	26.0
17	65.0	64.4	64.9	60.7	59.1	57.7	57.0	57.7	52.9	53.2
18	64.4	65.8	65.8	66.9	68.7	65.8	61.8	59.5	58.4	61.0
19	71.1	73.6	73.2	73.2	67.1	59.1	55.4	54.2	54.1	53.5
20	58.1	57.3	53.7	52.7	51.0	51.3	53.3	51.4	51.6	50.2
21	53.2	50.3	60.6	62.3	61.7	68.3	70.2	69.5	71.1	68.8
22	61.0	60.1	68.0	68.8	62.4	62.2	62.6	61.6	61.7	60.1
23	47.9	63.2	70.0	72.2	75.6	58.0	51.3	60.0	57.3	64.5
24	58.9	72.2	75.4	74.7	67.3	67.0	53.4	55.4	63.1	60.5
25	63.6	68.6	60.7	61.2	65.7	68.3	60.4	51.7	56.8	58.0
26	59.2	58.3	69.9	70.1	66.7	67.6	65.8	60.9	56.4	52.6
27	60.8	67.1	67.1	66.3	67.9	64.2	62.7	65.0	58.2	57.3
28	55.1	64.7	67.8	67.9	62.6	63.1	56.3	64.2	62.5	61.8
29	60.7	64.3	65.7	65.3	66.3	63.1	58.1	63.0	66.4	65.7
30	58.0	62.6	63.3	63.7	64.5	64.0	61.2	59.5	61.2	64.3
31	60.2	64.0	64.8	65.8	65.9	63.2	56.1	62.3	58.8	59.9
32	57.1	60.5	63.1	63.5	61.6	62.3	58.3	54.2	60.9	59.0
33	54.4	58.4	62.9	63.1	61.1	60.1	54.1	55.2	52.1	57.3
34	51.8	57.8	63.0	63.8	60.4	57.5	50.2	54.4	48.5	50.0
35	47.7	53.8	60.9	61.0	56.6	53.8	45.1	44.9	40.9	44.4
36	42.9	50.7	57.9	58.9	54.0	49.2	38.7	37.8	35.1	36.0
37	36.8	46.5	54.2	55.6	50.1	43.0	35.0	35.0	35.0	35.0
38	35.0	40.3	49.3	50.2	44.4	36.3	35.0	35.0	35.0	35.0
39	39.6	39.7	44.8	45.3	40.4	39.0	40.0	39.9	40.1	39.8
40	40.9	40.1	41.8	41.5	40.7	40.1	40.2	42.0	42.2	42.2
A	67.4	72.6	74.9	75.4	74.1	72.3	68.1	69.6	70.0	70.2
D	72.0	77.4	80.9	81.3	79.2	77.0	72.5	73.3	73.2	73.6
OASPL	74.8	79.1	81.2	81.2	79.4	76.6	73.5	74.1	74.4	74.4
PNL	78.7	84.5	88.1	88.5	86.6	83.6	79.5	79.8	80.1	80.0
PNLT	80.1	84.5	88.1	88.5	86.6	83.6	80.8	81.6	81.9	80.0

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 41, 9 DEGREE APPROACH, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-23.0	-17.5	-12.0	-6.5	-1.0	0	4.0	4.5	10.0	15.5	16.5
17	53.9	54.2	56.9	61.2	62.1	61.7	63.9	63.3	59.1	53.1	52.2
18	56.4	61.4	59.5	65.7	63.0	62.8	64.9	65.4	66.9	61.9	62.1
19	60.2	62.0	61.6	64.7	66.1	65.3	66.4	66.4	63.9	58.7	57.4
20	58.4	60.5	57.3	55.3	56.4	53.8	56.3	56.1	60.7	55.2	55.6
21	60.7	64.3	58.8	53.3	57.0	57.0	54.8	54.8	64.3	65.7	65.0
22	62.2	67.0	59.5	57.6	65.4	64.2	61.0	60.3	61.7	60.0	58.4
23	56.7	64.3	56.9	56.2	67.6	67.4	70.6	70.9	59.6	65.7	65.7
24	48.7	58.5	58.9	64.9	73.5	72.8	70.9	70.2	57.1	55.4	56.0
25	57.9	63.6	58.8	63.8	63.2	61.0	65.2	66.6	64.5	54.0	55.4
26	62.7	69.3	61.5	57.8	66.8	66.9	59.5	59.0	66.8	50.2	53.6
27	60.7	67.6	53.1	59.3	68.1	67.6	64.3	64.4	64.4	50.4	47.1
28	52.9	56.6	55.0	58.5	64.4	63.3	61.3	61.2	56.1	54.9	54.0
29	47.2	55.0	52.9	57.3	61.9	61.4	61.5	61.7	59.4	54.1	55.5
30	45.7	51.1	52.3	54.6	63.1	62.0	61.6	62.0	57.4	50.6	53.8
31	48.9	56.0	53.5	55.5	61.0	62.5	64.9	64.8	57.4	45.7	46.1
32	46.2	53.2	50.5	53.7	58.7	38.3	59.5	59.5	55.2	48.6	49.5
33	39.9	51.2	47.9	52.5	56.5	56.6	57.5	57.5	53.3	43.3	48.0
34	38.4	49.2	46.5	51.9	55.7	56.1	58.0	57.6	53.3	42.9	44.3
35	32.2	45.4	41.3	47.5	53.3	53.3	56.3	55.5	48.7	37.5	38.0
36	30.4	36.8	36.2	44.0	50.3	50.4	53.5	52.8	44.5	35.0	35.2
37	30.4	35.0	35.0	37.8	44.4	44.6	47.4	46.5	37.6	35.0	35.0
38	30.4	35.0	35.1	35.2	37.9	38.4	41.1	40.8	35.2	35.0	35.0
39	33.9	41.7	40.9	39.3	39.4	38.9	40.0	39.8	39.5	37.7	37.7
40	30.4	35.2	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	63.2	69.6	63.3	66.0	72.5	72.0	71.9	71.9	67.8	61.6	62.2
D	68.4	73.7	68.0	71.1	77.1	76.6	76.9	77.0	72.8	68.0	68.1
OASPL	69.9	75.1	69.8	72.7	79.1	79.0	78.9	78.8	74.6	70.8	70.8
PNL	74.7	81.2	75.7	77.9	84.6	84.2	83.6	83.5	80.7	74.8	75.2
PNLT	75.2	82.4	76.7	78.6	84.6	84.2	85.2	84.9	81.4	76.2	75.2

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 19, 6 DEGREE APPROACH, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRU PA)

BAND	-13.0	-8.5	-4.0	0	.5	5.0	9.5	14.0	18.5	21.0
17	61.2	62.5	64.0	62.5	61.7	60.3	55.4	57.1	56.0	55.8
18	59.5	60.7	61.9	64.2	64.4	64.8	59.2	59.6	57.4	57.6
19	64.3	64.0	66.8	67.2	67.4	65.1	60.4	58.1	57.6	57.7
20	57.4	59.6	60.1	60.9	61.3	58.3	58.5	59.5	58.2	56.5
21	55.7	56.4	56.1	56.9	57.3	61.2	66.4	69.0	68.7	68.8
22	57.7	56.2	57.0	67.6	68.2	61.4	65.7	64.6	63.0	62.7
23	51.6	52.8	60.2	69.3	70.3	68.3	62.2	62.6	62.2	61.1
24	55.5	61.0	70.7	74.4	75.0	65.0	58.3	60.8	61.6	60.9
25	56.2	58.1	64.5	64.5	65.3	64.9	53.3	55.0	57.4	57.3
26	60.5	60.7	60.2	63.3	63.9	63.3	57.9	56.9	58.3	58.1
27	60.8	56.9	61.1	68.4	68.6	57.3	57.7	52.5	53.5	55.8
28	53.4	54.4	62.2	62.7	62.6	62.3	57.8	53.4	51.1	53.9
29	57.6	58.3	59.9	63.9	63.8	57.7	53.3	52.3	46.4	50.0
30	56.9	56.6	60.1	62.9	63.3	59.6	53.9	51.3	46.5	47.7
31	56.3	56.0	61.2	61.1	62.1	60.2	59.8	47.6	50.3	49.8
32	52.0	53.8	58.5	59.8	60.2	55.3	48.7	42.6	47.2	42.8
33	47.4	50.8	54.8	58.3	58.5	55.8	50.1	40.1	45.4	42.9
34	45.8	46.2	52.8	57.5	58.1	56.2	50.2	38.0	39.3	43.5
35	41.5	42.0	49.4	54.9	54.8	53.4	45.8	35.4	40.3	37.0
36	35.5	37.3	45.2	52.0	52.3	50.1	42.1	35.0	35.1	35.0
37	35.0	35.0	40.1	47.1	47.8	45.4	36.3	35.0	35.0	35.0
38	35.0	35.0	35.1	42.2	42.7	39.7	35.0	35.0	35.0	35.0
39	35.0	35.0	35.0	37.9	38.2	35.0	35.0	35.0	35.0	35.0
40	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	64.9	64.7	69.3	72.6	73.2	69.1	65.2	62.4	61.7	62.0
D	78.4	79.1	84.3	87.7	88.3	84.4	80.2	78.5	78.6	78.3
OASPL	71.5	72.6	76.6	78.7	79.2	75.4	72.9	72.7	72.2	71.9
PNL	75.7	76.2	81.7	85.6	86.1	81.6	77.2	74.9	75.0	75.0
PNLT	75.7	76.2	81.7	85.6	86.1	83.2	79.8	74.9	76.1	76.5

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 26, 60 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.0	-6.0	-2.0	0	2.0	6.0	10.0	14.0	18.0
17	62.4	65.5	63.4	61.4	63.5	60.9	59.5	54.5	55.0
18	61.4	64.3	63.4	63.7	66.6	67.5	66.4	62.8	60.3
19	69.6	71.3	71.8	71.4	71.8	67.6	63.0	58.2	59.3
20	59.5	60.4	59.8	56.7	58.4	57.1	56.3	55.9	55.2
21	54.8	54.0	54.5	56.8	57.3	54.3	65.3	68.2	68.5
22	58.2	56.0	61.9	64.6	65.0	54.7	59.8	61.7	60.5
23	47.8	53.5	64.7	67.3	71.7	72.6	52.7	59.9	61.8
24	51.4	63.6	73.0	72.7	71.4	65.3	56.2	51.1	55.6
25	60.0	64.0	65.0	61.6	62.4	65.8	62.0	50.9	51.1
26	56.0	60.2	60.2	64.1	65.3	65.4	64.9	59.8	51.4
27	58.8	54.9	68.3	67.7	67.9	65.6	59.6	61.1	56.9
28	51.8	59.7	62.7	63.5	63.2	65.1	54.6	59.2	59.9
29	56.8	59.6	64.6	62.9	62.2	63.3	60.8	54.0	58.7
30	54.6	57.8	62.8	61.4	61.2	61.7	55.5	58.3	50.0
31	56.3	58.3	64.4	61.1	62.7	63.2	60.4	58.2	55.9
32	54.1	55.4	60.0	59.7	61.3	60.2	56.2	51.2	53.1
33	51.1	52.2	58.1	60.3	62.3	59.7	56.2	48.4	48.8
34	49.9	51.6	58.4	61.4	63.1	59.3	55.4	46.1	47.2
35	45.4	49.3	54.9	58.2	60.5	56.1	50.2	41.7	42.3
36	40.8	45.7	53.3	56.3	57.8	53.1	46.3	37.3	36.2
37	35.6	39.8	48.0	52.7	54.1	48.3	40.7	35.0	35.0
38	35.0	35.7	42.4	46.7	48.4	43.0	35.0	35.0	35.0
39	35.0	35.0	36.6	41.1	41.4	36.1	35.0	35.0	35.0
40	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	64.6	67.4	72.8	72.6	73.5	72.3	68.1	65.5	64.7
D	79.4	82.1	87.7	88.1	89.6	87.5	82.9	79.7	79.3
OASPL	73.1	75.9	78.4	78.2	79.0	78.0	73.6	72.3	71.9
PNL	75.9	78.6	84.9	85.7	87.0	84.4	79.9	76.5	75.9
PNLT	77.1	78.6	85.9	85.7	87.0	84.4	81.8	77.5	77.4

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 30, 75 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.5	-2.0	0	.5	2.5	7.0	11.5	16.0	20.5	25.0	25.5
17	62.7	60.4	59.4	58.7	56.5	57.9	55.1	47.1	53.4	54.3	54.1
18	61.5	63.1	65.3	66.3	68.6	69.1	68.2	62.2	65.2	64.8	64.1
19	66.5	69.5	69.2	69.1	65.8	60.5	59.1	60.2	67.4	66.6	65.8
20	56.5	53.5	52.3	52.3	53.1	57.0	55.6	48.5	53.5	53.8	53.3
21	53.3	53.5	56.8	58.2	61.3	65.2	69.2	57.7	58.4	58.8	59.0
22	56.7	59.9	62.7	62.4	60.7	54.1	59.1	53.8	58.5	60.3	60.2
23	50.5	66.3	72.1	73.1	74.7	66.3	65.1	60.3	66.2	67.5	67.7
24	57.4	70.2	69.7	68.8	65.8	62.3	50.8	50.2	59.3	60.8	60.6
25	59.1	61.4	59.9	59.6	58.0	64.6	57.8	42.1	54.7	57.5	56.4
26	57.9	60.4	66.9	66.8	65.7	66.1	65.0	49.6	51.9	56.5	55.5
27	56.3	67.5	68.8	68.3	67.4	59.2	65.9	54.3	51.3	53.4	51.1
28	52.5	61.1	64.3	64.7	62.8	61.9	60.5	4	58.4	55.2	53.3
29	56.9	62.1	63.1	63.3	61.8	59.2	55.1	53.6	61.1	53.2	52.9
30	53.6	61.6	63.0	62.9	61.3	61.2	61.1	51.0	59.5	53.3	53.2
31	54.1	62.3	63.5	63.4	62.0	59.8	57.4	57.0	52.3	52.8	52.7
32	51.7	58.4	61.6	61.7	59.0	57.3	58.6	49.6	55.9	50.0	49.3
33	49.4	57.7	61.3	61.9	59.4	56.8	56.5	47.9	51.5	48.8	48.1
34	49.2	57.8	61.3	62.5	60.7	56.5	54.1	44.9	49.3	46.6	45.6
35	44.9	54.1	58.6	60.1	59.4	54.2	51.6	38.6	41.0	39.5	39.2
36	41.6	50.8	56.5	57.8	57.3	50.6	45.0	35.1	35.6	35.5	35.4
37	36.3	46.4	51.9	53.5	52.1	44.1	36.8	35.0	35.0	35.0	35.0
38	35.0	39.7	45.4	47.3	47.0	37.4	35.0	35.0	35.0	35.0	35.0
39	35.0	35.8	41.1	43.2	40.5	35.0	35.0	35.0	35.0	35.0	35.0
40	35.0	35.0	35.1	36.4	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	63.3	70.9	73.2	73.6	72.6	69.4	68.8	61.9	66.5	64.1	63.5
D	68.5	76.0	78.7	79.5	78.7	74.9	73.9	66.2	70.7	70.1	69.7
OASPL	71.7	76.4	78.8	79.2	78.5	75.1	74.7	68.0	72.8	73.0	72.6
PNL	75.3	82.9	86.0	86.7	85.7	81.8	80.7	73.5	77.1	76.9	76.6
PNLT	76.6	82.9	86.0	86.7	85.7	81.8	82.3	75.7	78.5	76.9	76.6

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 31, 75 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-9.0	-5.0	-1.0	0	3.0	5.0	7.0	11.0	15.0	19.0	22.0
17	59.6	61.8	62.6	62.3	63.1	60.4	58.5	54.1	52.6	54.7	52.3
18	59.0	65.0	64.9	63.4	65.9	67.4	67.9	67.2	68.2	64.9	62.9
19	65.8	69.1	71.1	71.1	71.2	69.8	68.8	65.9	66.1	61.1	58.9
20	57.0	57.7	54.4	52.5	53.9	54.4	54.3	52.6	54.0	52.3	53.3
21	53.2	50.9	53.2	53.4	51.1	52.0	58.2	58.4	62.8	62.3	62.9
22	57.7	49.8	57.4	57.4	56.0	53.4	53.5	55.7	60.8	58.9	59.5
23	48.5	58.3	67.8	68.9	72.5	71.8	67.6	58.0	65.7	64.0	67.1
24	53.2	66.9	72.8	72.3	70.3	68.6	64.9	57.8	55.5	52.6	54.5
25	58.0	64.5	66.0	67.2	69.9	69.7	68.7	65.5	60.4	51.9	47.7
26	61.1	64.8	62.1	64.1	63.6	66.1	69.7	70.3	67.9	60.1	57.7
27	57.1	58.7	68.8	69.1	67.6	64.9	62.1	66.1	67.4	62.6	63.6
28	51.5	63.9	63.1	63.2	64.3	68.4	65.9	59.3	63.6	59.3	61.8
29	57.1	60.3	65.4	66.0	65.8	65.4	62.7	65.8	59.0	56.1	59.5
30	52.9	61.9	63.4	63.8	65.7	64.4	65.7	61.4	64.2	58.3	56.6
31	54.4	61.5	63.8	64.6	63.5	66.1	62.8	63.4	61.5	61.1	58.1
32	53.2	59.2	60.6	62.6	62.1	64.9	61.6	61.1	61.6	59.1	50.7
33	50.6	57.8	58.9	61.5	61.4	63.0	59.9	58.1	59.8	60.2	50.7
34	49.7	55.8	59.8	62.1	61.5	62.8	58.5	55.8	55.5	58.1	48.2
35	43.7	52.8	57.8	59.9	59.0	59.5	54.6	52.3	50.3	52.8	42.7
36	40.7	49.6	56.7	57.9	56.5	56.6	51.9	48.9	46.2	46.8	38.4
37	36.1	44.1	51.8	53.5	51.5	51.3	46.2	43.2	39.9	37.8	35.0
38	35.0	38.4	45.6	47.6	45.2	44.0	39.4	35.7	35.0	35.0	35.0
39	35.0	35.0	39.9	40.8	38.5	36.9	35.0	35.0	35.0	35.0	35.0
40	35.0	35.0	35.1	35.1	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	63.9	70.1	73.2	74.3	74.0	74.7	73.3	71.9	71.5	68.8	66.9
D	68.4	74.8	78.6	79.5	79.5	79.8	77.6	76.1	75.6	73.8	71.0
OASPL	71.0	75.2	79.5	79.9	80.4	79.7	77.9	76.1	76.2	72.6	72.4
PNL	75.8	81.5	85.5	86.7	86.4	87.0	84.5	83.4	82.6	81.2	77.8
PNLT	77.5	82.9	85.5	86.7	86.4	88.1	85.7	85.2	83.9	81.2	79.3

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 33, 75 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-8.0	-4.0	0	4.0	8.0	12.0	16.0	20.0	24.0
17	64.4	63.1	65.5	66.6	62.2	56.1	55.9	54.2	55.5
18	62.9	63.1	66.9	66.3	66.3	66.3	64.5	64.3	63.9
19	67.2	70.7	71.5	73.4	70.3	69.1	64.5	63.3	62.0
20	62.6	59.1	65.5	63.5	64.2	60.0	57.7	58.1	57.0
21	57.3	59.2	64.0	62.9	63.1	62.4	63.4	66.9	66.7
22	58.9	56.9	65.3	64.5	62.1	64.2	63.2	65.0	64.4
23	59.2	61.0	68.4	71.3	66.7	56.4	64.1	70.3	68.2
24	55.6	69.9	74.3	73.9	64.3	56.8	56.1	60.2	58.0
25	59.3	65.4	66.9	71.4	68.9	65.3	54.7	51.2	50.7
26	63.3	66.3	64.3	65.5	70.9	70.7	62.5	56.5	53.3
27	58.7	62.0	70.6	68.3	62.5	69.3	66.9	61.0	58.7
28	51.8	66.4	64.0	68.2	64.7	62.2	63.1	56.7	56.3
29	58.9	63.5	66.5	68.2	64.0	65.7	58.0	57.5	58.7
30	55.5	63.8	63.5	65.9	66.1	65.8	63.3	55.8	54.4
31	56.1	62.3	64.6	66.0	63.6	64.8	64.8	59.0	57.8
32	54.5	60.3	62.4	65.4	63.3	64.1	62.8	55.8	54.3
33	53.5	58.7	61.5	65.5	62.4	62.3	60.9	55.5	54.1
34	51.7	57.2	62.5	64.5	59.9	59.4	58.7	50.9	49.7
35	47.5	54.2	59.4	61.2	57.7	54.6	54.1	46.0	45.2
36	43.6	50.8	57.4	58.2	53.8	49.6	48.9	40.0	39.2
37	38.8	45.7	51.9	54.0	47.6	42.7	40.4	35.0	35.0
38	35.0	41.0	45.8	47.5	39.9	36.0	35.0	35.0	35.0
39	35.0	35.1	39.4	39.7	35.3	35.0	35.0	35.0	35.0
40	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	66.3	72.4	74.4	76.5	73.7	74.0	71.4	67.4	66.1
D	71.5	76.6	80.2	82.0	78.6	78.0	75.8	73.1	71.6
OASPL	73.3	77.3	81.1	81.8	78.5	77.5	75.2	74.9	73.7
PNL	78.2	83.4	87.4	89.1	85.8	85.0	83.0	80.1	78.5
PNLT	80.0	84.6	87.4	89.1	85.8	85.0	83.0	81.2	79.7

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 36, 82 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.0	-6.0	-2.0	0	2.0	2.5	6.0	10.0	14.0	18.0	20.5
17	63.4	63.7	61.4	62.5	63.9	63.4	60.3	59.7	59.7	65.4	57.9
18	64.9	66.4	66.9	65.6	67.2	67.7	69.2	70.0	69.0	66.3	65.2
19	66.8	68.3	71.5	71.0	71.6	71.9	68.6	66.0	63.3	62.7	61.0
20	58.8	56.9	56.5	53.7	54.3	54.2	52.0	53.0	52.3	52.3	54.1
21	54.5	52.5	50.9	56.0	54.8	54.5	52.7	60.6	61.6	61.8	63.6
22	59.7	52.0	56.3	59.2	60.3	60.6	53.2	55.3	55.7	56.5	57.5
23	50.1	50.3	64.7	67.9	71.8	73.3	71.9	62.9	58.8	64.6	66.2
24	51.5	62.5	72.8	72.9	71.6	71.8	67.4	61.6	51.7	53.0	53.7
25	52.6	64.2	66.1	66.0	68.1	69.5	69.5	67.8	60.4	51.2	47.6
26	61.3	67.1	61.6	64.8	66.6	67.6	67.8	70.3	65.2	59.6	54.0
27	61.3	58.3	68.2	70.2	69.4	70.0	66.1	62.6	65.5	62.5	59.3
28	59.1	60.1	65.4	64.7	64.4	65.2	66.8	62.0	59.6	59.6	57.2
29	54.3	63.2	66.5	66.0	66.0	66.6	65.8	66.6	60.6	57.2	57.2
30	60.4	60.9	65.0	65.3	63.8	65.2	64.5	64.3	63.2	57.6	50.5
31	57.4	60.1	65.7	65.9	65.8	67.5	67.1	65.0	60.8	61.0	55.8
32	56.2	58.2	61.8	62.8	62.5	64.1	64.1	63.5	62.0	56.8	52.3
33	53.5	56.1	60.0	62.6	61.5	63.5	62.9	61.6	58.9	56.5	52.2
34	50.1	55.8	59.7	62.0	61.3	63.3	62.8	59.1	55.8	53.0	47.1
35	47.7	53.6	56.6	59.6	58.8	61.3	58.6	54.5	49.3	48.7	41.9
36	41.9	48.7	53.5	58.1	57.5	58.7	55.4	51.3	45.6	42.9	37.1
37	36.2	42.7	48.6	53.1	53.5	54.6	50.2	45.2	39.2	35.1	35.0
38	35.0	36.6	41.8	46.1	47.2	49.1	43.2	36.7	35.0	35.0	35.0
39	35.0	35.0	36.3	40.8	40.2	41.4	35.5	35.0	35.0	35.0	35.0
40	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	66.7	69.8	73.8	74.8	74.6	75.9	75.1	73.4	70.6	67.6	64.2
D	70.5	74.3	78.0	79.6	79.5	81.2	80.0	77.8	75.0	72.3	69.6
OASPL	72.8	75.0	79.0	79.8	80.8	81.5	79.6	77.6	74.7	72.8	71.9
PNL	77.5	81.4	85.4	86.9	86.7	88.2	86.9	84.6	81.6	79.1	76.5
PNLT	79.0	81.4	85.4	86.9	86.7	88.2	86.9	85.8	81.6	80.3	78.0

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 41, 9 DEGREE APPROACH, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-19.5	-15.0	-10.5	-6.0	-1.5	0	3.0	7.5	12.0	13.0
17	60.2	59.0	62.6	66.2	61.2	63.3	62.9	61.4	58.9	55.6
18	60.6	60.8	60.8	63.0	66.2	66.8	63.2	64.8	60.2	60.5
19	62.5	66.0	64.4	66.8	66.3	65.1	65.9	65.5	58.4	58.9
20	62.2	59.4	59.1	57.9	57.6	55.9	54.3	56.5	56.5	56.2
21	64.3	59.0	58.5	55.1	65.9	65.9	63.5	59.7	68.2	68.3
22	63.9	56.5	58.6	61.6	70.9	72.1	71.5	56.9	64.5	63.5
23	59.0	51.0	55.2	62.0	69.8	70.3	71.5	66.8	60.6	60.9
24	58.3	56.9	62.0	69.6	74.1	73.4	70.7	62.6	52.8	53.3
25	59.7	59.8	59.9	61.1	63.4	64.3	57.6	65.7	52.7	49.2
26	61.2	58.3	58.5	59.3	69.8	70.4	66.1	61.3	59.3	55.7
27	57.9	51.5	51.8	64.8	63.8	63.5	61.1	56.9	59.0	56.9
28	50.5	54.2	57.6	58.4	65.1	63.7	60.9	59.4	57.9	57.8
29	55.5	54.6	52.3	59.5	64.5	63.1	61.0	56.1	51.8	53.8
30	49.7	51.0	54.5	58.1	62.5	62.8	61.4	57.8	58.4	52.2
31	49.2	49.9	53.2	56.1	63.4	65.0	61.2	59.8	57.3	55.6
32	43.1	47.2	50.6	54.3	59.8	60.5	58.1	54.5	52.6	49.1
33	41.9	45.8	49.7	53.5	57.6	57.4	58.8	53.1	51.3	49.6
34	39.2	44.2	48.6	52.3	57.4	57.7	59.8	52.2	50.7	48.0
35	36.3	40.8	45.1	48.4	54.1	55.4	57.3	49.4	46.9	43.8
36	35.0	36.5	40.5	45.5	52.1	52.1	54.7	46.9	42.1	39.2
37	35.0	35.0	35.0	40.0	48.0	48.3	50.3	41.7	36.5	35.3
38	35.0	35.0	35.0	35.0	42.0	42.7	44.3	35.9	35.0	35.0
39	35.0	35.0	35.0	35.0	36.1	38.1	37.8	35.0	35.0	35.0
40	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
A	62.9	61.9	63.9	68.0	73.1	73.3	71.6	67.7	65.5	63.8
D	68.4	67.0	68.6	73.2	78.6	78.6	77.8	73.0	70.9	69.6
OASPL	72.2	71.1	72.2	75.9	79.7	79.5	78.3	75.0	72.9	72.1
PNL	75.3	74.0	75.6	80.7	85.9	85.8	84.6	79.6	77.0	75.8
PNLT	77.1	74.0	77.4	80.7	85.9	86.9	84.6	80.8	78.3	77.4

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VII

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 19, 6 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-9.5	-7.0	-4.5	-2.0	0	.5	3.0	5.5	8.0	8.5
17	60.1	65.2	67.6	68.0	64.8	63.5	60.7	56.3	58.1	57.1
18	60.0	63.8	66.3	66.2	60.5	59.7	61.3	62.8	61.5	62.6
19	62.0	64.8	63.0	59.4	62.3	64.6	61.3	62.4	62.0	62.1
20	54.5	55.4	54.3	62.0	71.9	73.7	68.1	57.2	58.7	58.9
21	55.2	53.7	57.6	68.8	76.8	77.5	77.8	67.0	65.6	67.5
22	53.3	62.9	71.2	80.0	81.8	82.4	81.3	68.2	62.3	64.1
23	55.4	62.4	70.6	73.6	71.5	71.2	73.3	70.6	60.9	58.6
24	63.8	69.0	72.5	69.9	76.1	75.7	69.7	70.8	67.3	64.4
25	67.7	69.2	66.5	76.2	74.6	73.4	74.1	64.8	70.4	67.9
26	64.5	61.7	71.2	73.8	73.9	73.7	70.0	65.1	69.2	67.8
27	60.3	69.9	72.9	73.8	72.3	71.3	70.5	64.7	62.9	62.5
28	65.7	67.4	68.4	70.2	69.9	69.3	67.7	61.8	65.8	63.0
29	56.9	62.5	61.7	67.8	68.2	67.7	65.0	60.9	61.1	60.9
30	56.2	57.2	56.8	64.2	66.1	65.9	65.0	59.9	58.8	56.7
31	50.5	53.7	57.3	63.4	67.2	66.1	65.5	60.5	59.1	58.3
32	50.2	52.6	57.7	62.8	64.5	63.4	62.0	58.5	54.4	54.3
33	49.8	50.1	56.2	61.6	63.0	63.1	62.5	61.2	55.1	55.5
34	47.2	50.1	56.1	62.6	63.7	63.4	63.6	63.5	54.1	54.2
35	43.4	46.5	52.3	58.5	61.0	60.7	59.8	57.3	51.6	52.2
36	38.1	43.2	48.8	55.9	59.4	59.0	57.1	54.5	47.8	48.3
37	35.0	37.6	43.7	53.0	56.1	55.7	53.0	50.3	42.2	42.7
38	35.0	35.0	38.3	49.6	51.9	51.9	49.8	45.6	36.9	37.1
39	35.0	35.0	35.0	44.1	48.0	48.0	45.6	40.2	35.0	35.0
40	35.0	35.0	35.0	37.2	41.0	40.9	38.6	35.0	35.0	35.0
A	68.7	71.8	75.0	78.2	78.5	78.1	76.7	72.2	70.8	69.7
D	72.9	75.8	79.6	84.0	84.3	84.3	83.0	78.4	75.9	75.0
OASPL	74.1	77.5	80.6	84.9	86.0	86.3	85.3	78.4	77.1	76.0
PNL	78.9	82.3	85.8	89.9	91.6	91.6	90.4	86.3	82.9	82.1
PNLT	81.8	82.3	85.8	89.9	91.6	91.6	90.4	87.7	84.2	82.1

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 26, 60 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-6.0	-3.5	-1.0	0	1.5	4.0	6.5	9.0	11.5	13.5
17	68.7	66.7	58.9	58.5	57.4	61.4	59.1	57.1	55.5	52.7
18	65.0	62.1	61.8	60.6	61.1	62.6	62.9	62.2	61.4	56.6
19	65.8	60.0	61.8	59.7	61.3	60.5	61.5	60.4	60.4	58.7
20	56.0	59.4	61.0	60.4	57.4	56.0	55.5	57.4	57.1	55.4
21	57.0	65.8	71.7	74.5	76.6	71.8	57.1	66.2	69.0	69.7
22	70.1	79.2	80.6	80.7	78.1	68.2	52.9	58.7	61.4	60.6
23	62.0	62.6	58.5	59.8	64.2	64.8	56.8	46.8	50.2	54.3
24	62.0	58.8	65.4	65.8	63.5	66.4	68.7	64.5	55.9	51.8
25	55.9	71.8	73.3	73.2	69.4	65.4	67.0	64.5	59.1	54.5
26	59.7	64.5	68.9	68.7	67.6	68.3	61.1	63.5	65.1	63.1
27	57.6	68.5	67.6	67.7	68.6	67.4	63.3	57.7	61.0	63.2
28	56.2	64.2	67.4	66.7	65.5	66.1	61.2	58.0	53.8	60.6
29	53.2	61.9	66.1	65.6	65.1	64.5	61.9	62.4	58.8	55.4
30	53.6	62.2	64.2	63.7	63.7	64.0	60.3	60.3	59.1	60.3
31	55.1	65.6	65.5	65.4	66.5	65.1	64.1	61.3	57.9	56.5
32	54.6	62.6	63.8	63.8	64.4	63.1	58.2	58.1	56.1	54.7
33	54.6	62.7	63.7	63.9	63.5	63.5	56.5	57.0	55.3	52.0
34	55.5	64.9	64.5	64.6	64.0	62.6	55.0	55.1	53.8	48.5
35	52.0	60.9	62.3	62.7	62.1	59.6	50.3	50.5	47.8	45.4
36	49.4	59.1	60.6	61.0	58.5	55.5	46.8	45.9	45.3	45.0
37	45.8	56.0	56.7	57.5	55.5	50.3	45.0	45.0	45.0	45.0
38	45.0	51.1	52.6	53.5	50.4	45.7	45.0	45.0	45.0	45.0
39	45.0	46.4	48.5	49.4	46.1	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	66.8	74.9	76.3	75.9	75.9	74.7	71.4	69.8	68.2	67.2
D	73.3	81.6	82.8	83.0	82.2	80.1	75.6	74.4	72.7	71.4
OASPL	77.0	82.1	83.1	83.6	82.5	79.0	75.8	74.3	73.9	73.6
PNL	80.3	88.4	89.7	89.8	88.7	86.9	81.7	80.8	80.0	78.8
PNLT	80.3	89.4	89.7	89.8	88.7	86.9	83.3	80.8	80.0	80.3

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 28, 68 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-3.0	-1.0	0	1.0	3.0	5.0	7.0	9.0	11.0	12.0
17	65.7	64.9	61.7	59.8	59.7	58.6	60.9	57.5	57.6	56.4
18	63.6	60.2	58.3	57.2	61.0	62.2	64.1	62.5	63.0	61.8
19	62.7	57.4	57.9	57.3	55.5	55.5	55.7	57.1	57.7	56.8
20	53.0	56.0	57.9	57.0	56.8	52.6	54.4	54.3	54.4	54.2
21	59.1	67.2	69.9	73.1	77.7	73.1	57.9	67.6	69.8	70.5
22	71.9	79.6	80.4	81.2	77.6	68.0	53.4	58.3	60.0	60.5
23	62.0	61.6	59.1	59.1	66.6	65.5	58.3	52.9	50.1	50.3
24	60.4	60.9	64.5	67.6	66.2	67.9	71.1	70.9	65.2	61.8
25	63.0	73.4	74.3	75.4	70.8	66.2	67.9	69.2	65.5	62.4
26	63.1	65.5	68.6	70.0	69.2	69.6	61.7	67.2	68.3	65.7
27	59.2	69.4	68.6	69.9	70.5	68.3	67.8	60.6	65.0	65.2
28	58.1	64.7	67.3	68.7	67.0	68.2	65.2	60.2	58.0	57.8
29	57.0	65.2	67.2	68.0	67.4	67.0	66.6	64.6	67.5	64.0
30	57.1	64.4	66.3	67.0	65.9	66.4	64.9	66.7	64.1	62.1
31	59.8	68.1	68.8	68.5	67.5	69.1	65.8	66.0	67.5	62.6
32	58.1	64.1	65.9	66.4	66.0	64.7	64.5	64.3	64.0	60.8
33	57.1	64.3	65.2	66.3	65.4	64.0	63.9	62.4	61.7	58.7
34	59.2	66.5	66.5	67.6	66.7	63.9	61.7	61.0	58.2	56.0
35	55.8	63.7	63.7	65.1	63.9	61.3	57.4	55.2	54.1	50.7
36	52.9	62.0	62.5	64.1	61.5	57.6	54.7	50.4	47.9	44.9
37	49.4	59.4	58.7	61.4	58.4	53.0	48.2	42.8	40.6	37.2
38	45.0	55.3	54.5	57.2	54.8	48.1	42.9	35.5	35.1	35.0
39	39.7	50.4	51.0	53.2	50.6	41.5	36.0	35.0	35.0	35.0
40	35.0	41.8	44.3	47.6	43.4	35.4	35.0	35.0	35.0	35.0
A	69.3	76.3	77.4	78.5	77.5	75.9	74.3	74.1	74.0	71.0
D	75.8	83.2	83.7	84.5	83.6	80.8	79.0	78.7	77.6	75.4
OASPL	76.3	82.5	83.4	84.2	83.5	79.9	77.5	77.9	76.8	75.2
PNL	82.9	90.0	90.6	91.8	90.8	88.3	85.8	85.1	84.2	81.7
PNLT	82.9	91.3	90.6	91.8	90.8	89.4	85.8	86.3	86.3	83.0

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 29, 68 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-3.5	-.5	0	2.5	3.0	5.5	8.5	11.5	14.5	17.5	18.5
17	68.5	65.8	63.8	59.5	59.4	57.6	57.6	55.4	53.6	53.6	55.0
18	65.7	59.0	57.1	57.1	57.0	58.1	62.3	62.9	63.7	61.8	61.4
19	65.4	56.0	56.0	55.1	53.6	54.4	57.6	58.4	59.2	57.7	56.6
20	54.1	54.8	55.5	58.1	56.8	53.4	52.7	53.3	52.8	53.2	54.1
21	56.0	66.4	67.7	73.1	74.2	73.6	62.8	60.6	65.6	66.7	65.7
22	70.5	78.7	78.8	80.7	80.9	74.7	61.3	57.1	61.2	62.1	60.8
23	62.7	59.7	58.1	59.1	61.8	72.3	73.5	66.7	58.8	58.2	61.1
24	64.8	60.6	62.7	66.9	67.0	64.5	68.8	65.5	62.1	53.2	52.1
25	57.3	73.1	73.6	74.4	74.2	68.1	68.2	67.7	68.0	60.3	59.4
26	64.8	66.1	67.8	71.3	72.1	72.4	67.1	64.6	69.8	64.8	65.5
27	58.3	68.0	67.9	70.2	70.4	67.6	69.4	59.6	67.0	64.9	67.0
28	59.2	64.7	65.4	67.7	67.9	66.6	64.7	63.4	64.5	54.6	59.0
29	57.5	64.9	65.5	67.1	67.8	68.5	66.9	60.1	67.9	59.3	57.1
30	56.6	64.7	65.2	66.5	67.3	67.7	65.9	61.1	65.6	62.0	61.6
31	58.8	69.3	69.6	68.1	68.3	68.5	67.1	61.7	67.5	60.2	58.9
32	57.6	65.3	65.2	66.5	67.5	67.6	62.9	58.8	65.6	60.1	59.2
33	56.4	64.6	64.4	66.5	66.9	67.8	62.0	58.4	63.1	60.0	59.1
34	57.9	66.7	66.8	66.9	67.9	67.1	60.0	56.9	60.2	55.7	54.7
35	55.0	62.5	63.1	64.8	65.6	64.4	57.6	52.8	55.3	47.9	49.3
36	53.4	60.4	61.0	63.2	63.8	61.9	55.0	47.9	50.0	41.6	42.2
37	49.2	57.3	57.7	59.8	60.5	57.8	49.9	41.6	43.2	35.0	35.1
38	44.2	52.9	53.6	56.0	56.2	52.7	42.5	36.0	35.5	35.0	35.0
39	39.2	48.5	49.2	51.8	51.1	46.8	36.1	35.0	35.0	35.0	35.0
40	35.0	40.3	41.5	44.6	44.1	37.1	35.0	35.0	35.0	35.0	35.0
A	68.7	76.3	76.7	78.1	78.5	77.7	75.4	70.9	74.8	69.5	69.4
D	74.7	82.4	82.8	84.2	84.8	83.8	79.8	75.7	78.9	74.2	73.9
GASPL	76.7	81.8	82.3	84.0	84.4	82.0	79.1	75.1	77.3	73.4	73.3
PNL	82.4	89.7	90.0	91.3	91.9	90.9	86.1	82.0	85.6	81.2	80.9
PNLT	82.4	91.2	91.5	91.3	91.9	90.9	86.1	83.2	85.6	81.2	82.1

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 30, 75 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-3.0	-0.5	0	1.0	2.0	4.5	7.0	9.5	12.0	14.5	17.5
17	66.8	61.5	60.4	60.5	60.5	57.4	60.6	58.3	53.7	54.6	54.1
18	64.0	54.6	55.6	55.4	56.3	59.1	59.4	60.6	62.6	65.4	65.8
19	60.8	52.6	52.7	53.8	55.2	54.4	58.1	56.7	55.2	58.3	62.3
20	52.2	55.9	57.1	58.7	58.3	54.2	56.0	55.3	54.8	55.5	54.6
21	59.4	71.4	72.6	75.6	78.6	76.1	59.2	69.1	71.1	70.2	64.7
22	71.7	80.5	80.4	78.4	75.7	66.3	55.8	54.2	60.5	63.1	60.7
23	63.3	60.6	59.0	57.3	59.8	64.2	59.5	52.3	52.1	59.9	64.2
24	59.8	62.2	63.7	66.8	68.1	60.2	69.9	68.5	62.6	56.7	52.6
25	58.5	71.1	71.4	70.8	68.6	65.2	63.1	66.7	61.8	59.1	50.0
26	61.0	65.9	67.5	68.5	68.7	66.8	60.2	66.2	66.0	66.2	59.9
27	59.7	67.9	67.6	66.4	67.2	64.9	64.1	64.5	65.6	67.3	62.7
28	58.5	63.3	63.9	65.9	65.8	63.5	60.0	61.7	57.0	61.5	62.2
29	55.9	61.2	63.4	64.8	63.9	62.9	60.3	62.7	59.6	62.2	57.0
30	57.0	62.4	63.4	64.3	63.7	64.4	60.7	65.8	59.6	65.9	56.9
31	59.0	63.4	66.2	69.1	65.7	66.6	59.8	64.9	57.5	59.3	61.9
32	56.5	61.3	62.0	62.6	62.6	61.3	57.6	62.9	56.9	59.7	56.1
33	55.5	62.2	63.2	63.3	63.8	60.4	58.7	61.0	56.4	54.4	56.4
34	57.2	63.5	64.4	64.2	64.9	60.9	56.8	58.6	52.4	50.9	52.5
35	54.3	60.7	61.5	62.1	62.8	58.5	53.2	54.6	45.6	48.5	45.1
36	52.0	59.3	60.1	60.2	61.3	56.9	50.3	50.2	40.6	44.0	37.6
37	48.2	56.0	56.8	56.5	58.1	53.5	45.8	42.6	36.4	36.8	36.0
38	43.5	51.5	52.1	52.1	54.1	48.9	39.0	36.4	36.0	36.0	36.0
39	38.0	46.4	47.0	48.3	50.9	43.1	36.0	36.0	36.9	36.0	36.0
40	36.0	38.6	39.2	40.8	43.5	36.6	36.0	36.0	36.0	36.0	36.0
A	68.2	74.2	75.1	75.9	75.5	73.0	69.9	72.9	69.0	71.2	68.1
D	74.7	80.8	81.5	82.2	82.2	78.6	75.2	77.1	73.7	74.9	72.5
OASPL	75.8	82.1	82.4	82.8	82.8	78.6	74.4	76.2	74.7	75.4	73.3
PNL	81.5	88.5	89.0	88.9	89.3	85.8	81.9	83.7	80.3	81.6	79.1
PNLT	81.5	88.5	90.1	90.7	89.3	87.1	81.9	83.7	80.3	83.1	80.9

LOWER LIMIT OF ANALYSIS SYSTEM= 36.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 31, 75 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.5	-1.0	0	2.5	6.0	9.5	13.0	16.5	20.0	20.5
17	67.5	68.2	62.8	59.2	57.4	53.5	55.4	56.0	52.7	52.9
18	64.7	59.9	57.3	55.5	63.1	64.1	64.3	61.5	58.7	57.5
19	65.4	55.1	56.1	54.5	59.0	59.1	58.4	56.4	56.4	55.5
20	52.3	58.1	60.0	56.2	51.4	52.3	52.8	53.8	53.5	53.8
21	54.6	67.5	69.2	73.7	70.0	59.6	66.4	68.5	68.1	68.6
22	68.7	79.4	79.7	79.6	68.5	56.5	60.5	62.8	63.0	63.5
23	63.1	61.8	57.9	62.3	75.0	69.9	58.4	60.3	61.4	60.4
24	63.6	61.8	64.2	65.4	66.4	65.6	59.1	53.9	52.2	51.5
25	56.7	73.2	74.1	71.3	65.6	67.8	63.8	62.0	56.4	54.6
26	60.0	65.5	68.7	70.0	69.9	63.3	65.9	68.0	64.4	62.1
27	60.5	69.2	69.6	69.4	67.5	63.5	63.5	67.8	67.2	65.3
28	58.0	65.3	66.8	68.0	67.3	65.1	56.9	59.2	64.1	62.0
29	56.5	65.0	65.7	67.2	67.3	63.0	63.4	63.0	59.4	57.2
30	56.5	64.6	63.9	66.3	65.2	62.8	60.6	65.4	66.7	63.7
31	56.3	67.8	68.5	69.5	66.4	63.1	62.9	62.7	65.2	62.0
32	54.9	64.7	64.6	65.7	65.1	61.1	59.3	62.4	61.4	56.6
33	55.1	63.6	64.1	65.7	64.7	60.7	56.8	60.2	56.9	52.2
34	57.6	65.5	65.5	66.4	64.6	59.1	54.2	56.0	54.1	49.1
35	53.3	63.3	62.7	64.0	61.4	54.5	48.9	49.9	47.3	43.5
36	50.6	61.0	61.0	62.2	57.3	50.1	44.0	44.2	39.9	37.5
37	47.2	57.3	58.1	59.0	52.9	43.8	37.8	37.2	35.0	35.0
38	42.8	53.0	53.0	54.9	47.6	36.6	35.0	35.0	35.0	35.0
39	37.2	48.3	49.2	50.5	40.8	35.0	35.0	35.0	35.0	35.0
40	35.0	40.6	42.4	43.5	35.0	35.0	35.0	35.0	35.0	35.0
A	67.3	76.2	76.8	77.7	75.9	72.1	70.2	72.4	72.1	69.4
D	74.2	82.1	82.5	83.5	81.5	77.6	74.4	76.3	75.4	73.1
OASPL	75.9	82.5	82.8	83.3	80.5	76.6	74.1	75.7	75.2	73.8
PNL	81.3	89.4	89.7	90.7	88.6	83.7	80.9	82.6	81.6	79.4
PNLT	82.4	90.5	91.1	91.8	88.6	83.7	82.5	82.6	83.1	80.8

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 33, 75 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.5	-2.0	0	.5	2.0	3.0	5.5	8.0	10.5	13.0	14.5
17	65.2	67.0	65.2	61.7	57.7	59.8	59.3	58.1	55.7	56.1	54.9
18	67.0	60.9	58.9	58.4	60.4	61.1	62.9	62.7	60.1	61.2	59.8
19	67.8	60.6	61.8	61.0	60.2	60.1	63.4	60.1	59.1	59.0	57.5
20	64.7	58.1	62.4	63.1	61.5	62.2	58.5	56.0	56.9	56.3	56.3
21	64.9	63.7	67.4	67.7	70.4	72.1	69.6	59.7	63.2	65.2	66.4
22	69.1	77.2	79.4	79.4	81.1	81.4	74.8	62.5	63.7	65.2	65.5
23	64.4	66.9	64.1	63.6	63.5	65.3	73.4	69.7	66.2	55.0	55.4
24	64.3	62.1	64.4	64.9	65.2	65.1	68.9	68.1	67.3	60.8	56.7
25	59.6	71.2	74.6	74.6	75.0	72.8	66.9	70.0	71.5	66.4	63.0
26	64.0	64.6	70.5	70.9	70.7	70.3	73.2	63.2	70.4	69.8	67.2
27	60.2	66.8	68.0	68.5	70.7	71.4	68.6	68.0	62.4	66.7	66.7
28	57.8	61.7	68.3	68.5	68.1	67.1	68.8	64.1	66.2	59.5	60.6
29	56.7	63.5	67.1	66.7	66.8	67.3	69.4	67.2	63.9	65.6	62.7
30	56.5	64.7	65.6	65.2	66.7	67.1	68.4	67.0	65.5	60.6	63.1
31	56.6	65.3	67.1	66.5	68.9	69.1	69.5	68.5	64.7	62.6	61.0
32	54.8	64.5	66.2	65.9	68.2	66.6	69.2	66.2	64.2	58.7	57.8
33	54.2	63.1	65.8	65.9	67.0	66.1	67.6	64.2	63.4	56.7	56.0
34	56.6	64.7	66.4	66.3	68.3	66.5	66.7	60.9	60.3	56.4	56.5
35	53.5	61.1	64.0	63.7	65.5	64.4	64.4	57.8	55.5	51.9	51.6
36	51.2	59.0	62.0	61.7	63.2	62.1	61.3	55.0	52.3	47.3	46.8
37	47.5	55.2	59.0	58.8	59.7	58.7	56.4	50.4	45.9	39.5	38.0
38	42.9	51.2	55.0	54.7	57.3	54.5	51.4	43.5	38.3	35.0	35.0
39	38.0	46.4	50.6	50.6	52.9	50.2	44.4	37.4	35.0	35.0	35.0
40	35.0	38.1	43.0	42.9	45.6	42.5	36.2	35.0	35.0	35.0	35.0
A	67.9	74.8	77.4	77.7	78.7	77.9	78.6	75.4	74.6	72.0	71.9
D	74.3	81.1	83.7	83.8	84.8	83.8	83.9	79.6	79.3	76.3	74.9
OASPL	77.1	80.8	83.3	83.3	84.2	84.0	82.2	78.5	78.4	76.2	75.0
PNL	81.8	88.3	90.6	90.5	92.0	91.1	91.1	86.7	85.8	83.2	81.8
PNLT	81.8	88.3	90.6	90.5	92.0	91.1	91.1	86.7	86.8	85.0	81.8

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 36, 82 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.0	-1.0	0	2.0	5.0	8.0	11.0	14.0	17.0	17.5
17	64.7	66.1	60.4	58.8	57.5	55.9	56.8	55.9	61.0	60.8
18	63.5	62.4	61.4	62.2	63.5	64.9	65.4	65.5	65.1	65.1
19	64.3	56.0	56.2	55.3	56.2	56.6	57.2	56.8	57.0	58.2
20	51.1	55.1	58.8	56.5	50.7	50.8	51.3	50.8	53.3	53.0
21	55.1	67.4	69.2	74.7	72.7	57.2	65.1	67.7	67.6	68.2
22	70.0	78.3	79.2	79.2	70.2	55.6	57.4	60.3	59.7	60.5
23	60.5	59.0	57.5	62.1	73.8	70.8	62.6	51.9	63.2	63.4
24	59.1	62.3	65.1	66.3	65.0	67.5	63.3	54.2	50.8	50.3
25	61.1	73.6	74.6	72.1	67.3	67.8	66.2	62.9	59.1	57.1
26	61.7	66.8	69.5	71.3	71.6	63.0	65.9	65.4	63.6	62.0
27	58.5	68.7	69.4	68.7	56.3	68.7	59.8	65.9	66.7	65.9
28	60.1	65.2	67.6	67.4	67.1	66.9	60.5	56.3	61.1	60.2
29	58.5	64.8	65.9	67.0	67.6	69.2	59.8	61.5	57.4	53.5
30	57.3	64.6	65.5	66.7	65.9	65.5	58.0	59.7	65.0	60.9
31	57.3	65.8	66.9	67.8	66.6	66.6	56.1	62.5	61.0	59.1
32	55.3	63.3	64.8	66.6	66.3	65.0	55.5	59.6	59.7	56.0
33	54.7	62.3	64.8	66.4	65.3	63.5	54.7	57.5	53.8	51.4
34	57.3	64.5	65.6	67.1	64.7	60.5	51.7	54.4	52.7	49.4
35	55.0	61.7	63.0	64.6	61.6	57.6	47.9	47.6	47.2	44.5
36	52.7	59.7	60.8	61.7	58.6	53.0	44.3	40.8	39.8	37.9
37	49.1	55.6	57.6	58.9	53.8	47.1	38.3	35.1	35.0	35.0
38	42.9	51.8	54.1	54.9	48.4	39.9	35.0	35.0	35.0	35.0
39	37.1	47.3	49.8	50.5	41.4	35.0	35.0	35.0	35.0	35.0
40	35.0	39.6	43.2	42.5	35.0	35.0	35.0	35.0	35.0	35.0
A	67.9	75.4	76.7	77.5	76.3	75.1	68.2	69.9	70.2	68.1
D	74.4	81.5	82.9	83.8	81.8	79.6	73.2	74.3	73.9	72.4
OASPL	75.1	81.8	83.0	83.3	80.7	78.5	74.0	74.0	74.3	73.6
PNL	81.5	88.5	89.9	91.0	89.0	86.0	80.2	80.5	80.7	79.4
PNLT	81.5	88.5	89.9	91.0	89.0	87.1	80.2	81.7	82.6	80.9

LOWER LIMIT OF ANALYSIS SYSTEM= 35.0

TABLE C-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 47 G

OCTOBER 5, 1976

EVENT 41, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-4.0	-2.5	-1.0	0	.5	2.0	3.5	5.0	6.5	9.0
17	66.2	66.0	67.2	65.0	63.5	60.6	62.9	66.5	68.1	64.1
18	62.6	61.8	61.9	57.2	56.4	57.0	59.1	60.9	60.9	63.4
19	58.5	57.9	57.0	57.3	57.9	60.4	61.4	58.0	61.9	61.5
20	57.8	60.7	69.1	68.2	65.4	62.0	59.4	56.8	56.2	60.3
21	60.4	67.9	74.3	72.7	70.5	71.1	72.2	72.2	67.0	62.9
22	71.9	76.9	80.5	79.6	78.7	78.7	78.2	74.8	68.1	58.4
23	61.9	69.8	72.0	67.3	63.1	61.8	66.4	70.1	69.9	62.7
24	57.8	67.0	75.6	73.1	69.8	66.3	61.5	63.5	65.7	63.2
25	61.9	74.8	77.5	73.5	70.4	68.9	66.9	64.2	61.1	65.1
26	63.1	68.1	71.4	68.4	66.9	65.9	63.6	66.9	64.2	62.2
27	57.8	70.6	72.4	67.5	65.6	65.6	64.6	62.9	64.9	56.4
28	56.3	65.7	68.3	66.8	65.2	65.0	62.9	61.8	61.4	61.0
29	56.7	61.4	66.3	65.2	63.7	63.1	62.5	62.1	60.2	58.3
30	56.4	60.7	65.4	63.6	62.9	62.9	62.8	62.0	60.3	61.7
31	57.4	61.5	64.8	63.8	63.0	65.7	65.1	61.5	62.0	62.7
32	55.8	59.9	63.8	62.6	61.7	60.5	61.3	58.9	58.7	55.8
33	54.1	58.3	63.8	62.5	61.5	61.1	61.2	58.9	59.5	55.2
34	55.8	58.5	63.8	64.4	63.7	61.5	61.7	58.4	59.2	54.9
35	51.9	55.3	59.7	59.8	59.3	59.9	59.0	56.5	56.9	50.2
36	49.9	52.5	57.2	57.4	56.8	57.8	57.2	54.5	53.5	46.2
37	45.4	47.6	53.1	53.8	53.5	55.0	53.2	50.3	48.9	41.3
38	40.9	42.6	48.6	49.4	49.4	51.4	48.3	44.7	42.5	38.0
39	38.0	39.0	45.5	43.9	43.5	47.9	43.6	40.3	38.0	38.0
40	38.0	38.0	38.9	38.0	38.4	39.3	38.0	38.0	38.0	38.0
A	67.3	73.7	78.5	75.9	74.4	74.0	73.4	71.6	71.2	69.2
D	74.0	80.1	84.3	82.4	81.0	80.3	79.7	77.9	77.1	73.7
OASPL	76.3	81.8	85.4	83.6	82.1	81.5	81.2	79.8	77.3	74.4
PNL	80.8	86.9	90.8	89.2	87.9	87.7	87.0	84.9	84.0	80.4
PNLT	80.8	86.9	90.8	90.2	88.9	89.0	88.1	84.9	84.0	81.9

LOWER LIMIT OF ANALYSIS SYSTEM= 38.0

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 2, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.8	66.5	64.9	65.8	.0
15	67.7	68.4	66.7	67.7	.0
16	61.3	62.8	60.2	61.3	.0
17	63.1	64.5	61.1	63.0	.0
18	71.6	72.3	70.7	71.6	.0
19	82.8	83.9	81.7	82.8	.0
20	61.6	62.3	60.6	61.5	.0
21	63.3	64.3	61.8	63.2	.0
22	71.6	72.5	70.6	71.5	.0
23	65.3	67.1	63.9	65.2	.0
24	71.3	73.3	69.5	71.2	.0
25	70.5	72.2	66.6	70.3	1.4
26	68.2	70.2	64.0	67.8	1.8
27	64.3	66.6	61.7	64.2	1.2
28	61.0	62.6	57.5	60.8	1.3
29	57.9	60.2	54.8	57.7	1.6
30	54.3	56.3	52.1	54.1	1.2
31	53.5	54.8	51.5	53.4	.0
32	53.8	55.0	50.7	53.7	.0
33	54.6	56.3	52.2	54.4	1.1
34	53.9	55.7	51.5	53.8	1.1
35	52.4	54.3	50.4	52.3	1.0
36	51.1	53.9	48.4	50.9	1.2
37	50.1	52.3	46.7	49.9	1.3
38	48.0	50.1	45.5	47.9	1.2
39	45.8	47.1	45.0	45.7	.0
40	45.0	45.0	45.0	45.0	.0
DBA	71.1	72.2	70.1	71.1	.0
DBD	78.3	78.9	77.2	78.2	.0
OASPL	83.8	84.6	83.0	83.8	.0
PNL	85.9	86.4	85.0	85.8	.4
PNLT	85.9	86.4	85.0	85.8	.4

270°
(Microphone Location
Relative to Helicopter)

TABLE C-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 3, 45 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.0	65.8	64.3	64.9	.0
15	67.0	67.9	65.9	67.0	.0
16	60.4	61.6	59.5	60.3	.0
17	63.7	64.8	62.4	63.6	.0
18	72.7	73.6	71.0	72.6	.0
19	83.5	84.3	81.6	83.4	.0
20	61.8	63.0	59.9	61.7	.0
21	63.5	64.6	62.2	63.4	.0
22	71.1	72.8	67.7	70.9	1.5
23	69.2	71.9	65.7	68.8	1.9
24	74.6	77.5	71.1	74.2	1.9
25	70.7	73.5	66.5	70.3	1.9
26	69.4	72.5	66.2	69.1	1.6
27	69.5	72.1	67.9	69.3	1.1
28	67.5	69.3	65.3	67.4	.0
29	63.5	66.0	60.2	63.3	1.4
30	59.4	62.3	55.7	59.2	1.4
31	57.5	59.5	55.3	57.3	1.2
32	56.8	59.2	54.3	56.7	1.1
33	55.7	57.5	52.7	55.6	1.0
34	53.7	56.3	50.9	53.6	1.2
35	51.3	52.9	48.0	51.1	1.2
36	49.1	50.5	46.4	49.0	1.1
37	47.3	49.0	45.2	47.2	1.2
38	45.8	47.2	45.0	45.7	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	73.8	75.8	71.3	73.6	1.1
DBD	79.8	81.3	77.6	79.7	1.0
OASPL	84.8	85.6	83.0	84.7	.0
PNL	87.3	88.4	85.0	87.2	.9
PNLT	87.3	88.4	85.0	87.2	.9

225°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 4, 90 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA).

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.0	67.9	66.1	66.9	.0
15	67.2	68.3	65.5	67.1	.0
16	61.2	61.7	60.2	61.1	.0
17	64.9	66.4	63.5	64.8	.0
18	69.7	70.9	68.5	69.7	.0
19	76.9	79.8	73.1	76.5	1.7
20	61.4	63.5	57.9	61.2	1.4
21	68.9	70.5	67.3	68.8	.0
22	81.8	83.2	80.6	81.7	.0
23	69.1	71.0	66.8	68.8	1.4
24	73.8	77.5	69.1	73.2	2.4
25	74.2	77.0	71.2	74.0	1.5
26	72.0	73.4	69.5	71.9	.0
27	72.7	75.5	69.9	72.5	1.3
28	66.7	70.3	66.6	68.6	1.0
29	64.0	66.2	61.6	63.8	1.3
30	60.0	62.3	57.6	59.8	1.2
31	57.1	60.1	54.2	56.9	1.4
32	56.6	61.1	52.9	56.1	2.0
33	55.1	59.3	52.2	54.6	1.8
34	53.7	57.1	51.5	53.4	1.4
35	51.5	54.0	49.6	51.4	1.2
36	49.3	52.6	47.2	49.1	1.4
37	47.1	49.7	45.3	47.0	1.2
38	45.6	47.7	45.0	45.5	.0
39	45.0	45.4	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	75.7	76.9	74.0	75.7	.0
DBD	81.7	82.4	80.4	81.7	.0
OASPL	84.8	85.5	83.9	84.8	.0
PNL	89.0	89.7	87.9	88.9	.5
PNLT	89.0	89.7	87.9	88.9	.5

180°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 5, 135 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.4	66.2	64.3	65.3	.0
15	68.3	69.5	66.8	68.3	.0
16	61.4	63.0	59.7	61.3	.0
17	64.2	65.9	61.8	64.1	.0
18	70.3	72.0	68.3	70.2	.0
19	80.1	81.4	78.1	79.9	1.1
20	65.9	70.9	60.4	65.0	2.6
21	69.9	73.4	66.6	69.6	1.7
22	76.5	79.1	72.3	76.1	1.9
23	74.8	77.0	72.3	74.7	1.2
24	78.9	81.1	76.7	78.8	1.1
25	76.6	80.4	73.4	76.2	1.9
26	77.1	80.3	73.7	76.7	1.8
27	76.5	79.0	71.9	76.2	1.7
28	73.6	76.5	70.6	73.2	1.8
29	67.6	72.2	64.1	67.2	1.9
30	61.5	65.3	58.6	61.1	1.8
31	58.6	63.0	55.3	58.1	2.0
32	60.3	64.6	56.2	59.5	2.5
33	57.9	61.3	53.0	57.4	2.2
34	56.0	59.3	50.4	55.5	2.1
35	54.5	57.9	48.3	53.9	2.4
36	51.6	54.4	46.9	51.3	1.9
37	49.4	51.2	45.5	49.2	1.5
38	46.9	48.3	45.0	46.8	.0
39	45.0	45.2	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	79.2	81.4	76.5	79.0	1.4
DBD	84.0	86.2	81.1	83.8	1.3
OASPL	86.3	88.0	84.2	86.2	.0
PNL	91.1	92.8	88.2	90.9	1.2
PNLT	91.2	93.9	88.2	91.1	1.2

135°
(Microphone Location
Relative to Helicopter)

TABLE C-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 6, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.6	67.8	64.9	66.5	.0
15	67.6	68.6	66.5	67.6	.0
16	60.9	62.9	58.8	60.7	1.1
17	63.2	65.9	60.6	63.0	1.3
18	70.2	71.3	68.8	70.2	.0
19	81.2	82.0	80.3	81.2	.0
20	67.1	71.5	63.9	66.6	2.1
21	67.3	69.6	64.3	67.1	1.4
22	73.0	75.2	70.3	72.9	1.2
23	70.1	72.0	66.9	69.8	1.6
24	73.5	75.3	70.3	73.3	1.6
25	74.2	76.5	69.9	73.9	1.7
26	73.0	75.0	67.5	72.4	2.2
27	73.1	77.2	67.5	72.4	2.4
28	70.8	73.7	66.2	70.3	2.2
29	66.2	69.5	62.2	65.8	1.9
30	60.6	62.9	56.0	60.2	1.9
31	57.8	61.3	53.4	57.2	2.3
32	57.6	61.1	52.9	57.0	2.3
33	56.2	59.5	52.5	55.7	2.1
34	54.1	57.6	51.1	53.7	1.9
35	52.4	55.9	49.4	51.9	1.9
36	51.2	54.8	48.9	50.8	1.7
37	49.5	52.5	47.1	49.2	1.5
38	47.1	49.5	45.4	46.9	1.2
39	45.3	46.5	45.0	45.2	.0
40	45.0	45.0	45.0	45.0	.0
DBA	76.1	78.6	72.1	75.8	1.8
DBD	80.9	83.2	77.7	80.6	1.5
OASPL	84.3	85.5	82.8	84.2	.0
FNL	88.2	90.8	85.2	87.9	1.6
PNL1	88.2	90.8	85.2	87.9	1.6

90°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 7, 225 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.7	67.7	65.3	66.7	.0
15	68.4	69.3	67.0	68.4	.0
16	61.9	62.9	61.0	61.9	.0
17	65.0	66.0	63.4	65.0	.0
18	68.3	70.4	64.4	68.1	1.4
19	76.2	77.3	73.1	76.1	.0
20	60.9	63.8	58.9	60.7	1.2
21	61.4	65.3	57.9	61.0	1.7
22	61.7	63.1	58.3	61.5	1.2
23	63.3	64.9	61.4	63.2	.0
24	68.0	69.4	65.3	67.9	1.0
25	67.8	69.7	64.8	67.6	1.3
26	67.2	69.8	64.3	67.0	1.5
27	66.6	68.8	64.1	66.4	1.3
28	63.5	65.4	61.1	63.4	1.0
29	59.9	61.9	57.6	59.8	.0
30	54.4	56.5	51.2	54.2	1.4
31	52.4	55.7	49.6	52.1	1.7
32	51.9	55.7	49.6	51.6	1.7
33	50.8	54.3	48.2	50.4	1.7
34	49.1	52.4	46.1	48.7	1.7
35	48.1	51.4	45.7	47.8	1.6
36	48.0	51.0	45.7	47.8	1.3
37	46.9	49.5	45.1	46.7	1.1
38	45.5	46.8	45.0	45.5	.0
39	45.0	45.3	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	69.9	71.7	67.1	69.7	1.2
DBD	74.8	76.4	72.3	74.7	.0
OASPL	79.1	80.2	77.1	79.1	.0
PNL	82.3	84.0	80.1	82.2	1.0
PNLT	82.3	84.0	80.1	82.2	1.0

45°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 8, 270 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.5	69.3	67.5	68.5	.0
15	67.3	68.2	65.7	67.2	.0
16	60.9	62.3	59.6	60.9	.0
17	64.6	66.4	63.2	64.5	.0
18	64.9	66.7	63.1	64.8	.0
19	66.1	69.4	62.4	65.4	2.4
20	56.8	60.3	54.6	56.5	1.5
21	61.0	62.5	59.1	60.9	.0
22	65.9	67.2	61.5	65.7	1.4
23	60.7	61.3	58.7	60.6	.0
24	63.8	66.6	60.3	63.3	2.1
25	63.5	65.2	60.9	63.4	1.2
26	64.2	66.1	61.4	64.0	1.3
27	64.0	67.5	60.6	63.6	1.8
28	60.6	64.2	57.7	60.2	1.7
29	55.8	59.2	51.7	55.4	1.9
30	50.3	53.8	47.7	50.0	1.4
31	48.1	50.9	46.2	47.9	1.2
32	48.5	52.2	45.7	48.1	1.6
33	47.2	49.7	45.2	47.1	1.1
34	45.9	47.7	45.0	45.8	.0
35	45.0	45.4	45.0	45.0	.0
36	45.0	45.5	45.0	45.0	.0
37	45.0	45.2	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	66.6	69.0	64.6	66.4	1.2
DBD	71.4	73.1	70.0	71.3	.0
OASPL	75.6	76.2	74.8	75.6	.0
PNL	79.3	81.0	78.2	79.2	.8
PNLT	79.3	81.0	78.2	79.3	.8

0°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 9, 315 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.0	68.7	67.4	68.0	.0
15	68.3	69.2	67.4	68.3	.0
16	62.4	63.9	61.3	62.3	.0
17	65.3	66.5	63.9	65.2	.0
18	69.4	70.5	68.1	69.4	.0
19	78.4	79.4	77.0	78.4	.0
20	59.6	60.3	58.6	59.6	.0
21	62.3	62.9	61.4	62.3	.0
22	65.9	66.9	65.0	65.9	.0
23	63.0	68.7	60.2	62.4	1.9
24	67.0	69.2	63.7	66.8	1.4
25	67.7	68.9	65.2	67.6	.0
26	67.3	74.8	63.3	65.9	2.7
27	64.2	67.7	61.3	63.6	2.0
28	61.9	68.8	58.5	60.8	2.5
29	58.8	67.3	54.6	56.8	3.1
30	55.5	64.6	49.4	52.5	3.7
31	54.9	64.3	48.8	51.6	3.9
32	55.3	64.8	48.8	51.7	4.0
33	54.5	63.8	48.6	51.3	3.8
34	53.3	62.6	47.0	50.0	3.9
35	50.5	59.1	45.4	48.2	3.4
36	48.3	55.7	45.0	46.9	2.8
37	46.6	52.5	45.0	45.9	2.0
38	45.4	47.6	45.0	45.3	.0
39	45.0	45.0	44.4	45.0	.0
40	44.9	45.0	43.6	44.9	.0
DBA	69.5	76.4	67.1	68.5	2.3
DBD	75.5	80.6	73.4	75.0	1.7
OASPL	80.5	82.0	79.7	80.5	.0
PNL	82.0	82.7	81.2	82.0	.4
PNLT	82.0	82.7	81.2	82.0	.4

315°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 2, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.3	68.0	66.6	67.3	.4
15	67.0	68.0	65.9	67.0	.5
16	60.1	61.6	58.3	60.0	.7
17	61.7	63.6	58.8	61.6	1.1
18	70.1	71.6	68.4	70.0	.8
19	81.9	82.8	81.0	81.9	.6
20	60.8	62.1	59.4	60.7	.7
21	64.5	66.0	61.9	64.4	1.0
22	73.2	74.7	72.1	73.1	.9
23	69.3	71.0	67.7	69.2	.9
24	75.1	76.8	73.5	75.0	.9
25	73.9	75.7	71.4	73.7	1.1
26	71.2	73.5	67.5	70.9	1.6
27	71.8	75.0	66.5	71.4	2.1
28	68.0	71.8	65.0	67.6	1.8
29	66.8	70.2	64.6	66.6	1.4
30	65.0	67.6	61.4	64.7	1.5
31	64.6	67.4	61.0	64.3	1.7
32	62.0	64.1	59.4	61.8	1.4
33	58.6	62.5	54.7	58.1	2.2
34	57.7	61.0	53.3	57.2	2.1
35	55.9	60.1	50.6	55.2	2.6
36	54.9	58.7	50.2	54.4	2.2
37	52.4	55.0	48.0	52.1	1.7
38	49.1	52.4	46.3	48.9	1.5
39	45.8	47.8	45.0	45.8	.7
40	45.0	45.0	45.0	45.0	.0
DBA	76.2	78.2	73.8	76.0	1.1
DBD	81.7	83.2	79.2	81.6	1.0
OASPL	84.6	85.4	83.6	84.5	.6
PNL	88.7	90.2	86.5	88.6	1.0
PNLT	88.7	90.2	86.5	88.6	1.0

90°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 3, 45 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	66.2	67.6	65.0	66.2	.7
15	68.0	68.8	67.0	68.0	.4
16	61.1	62.1	59.7	61.1	.6
17	63.8	65.8	62.4	63.8	.7
18	68.1	68.9	67.0	68.0	.5
19	78.6	79.6	77.8	78.5	.5
20	58.9	60.2	58.1	58.9	.6
21	60.1	61.5	58.9	60.1	.7
22	60.9	63.1	58.8	60.7	1.4
23	64.7	65.9	62.8	64.7	.8
24	70.0	71.4	68.1	69.9	1.0
25	67.2	69.3	62.9	66.9	1.6
26	66.8	70.4	62.0	66.3	2.2
27	64.3	67.7	60.0	63.8	2.0
28	60.3	64.0	57.3	59.9	1.7
29	58.8	61.0	54.3	58.5	1.7
30	56.8	58.6	52.9	56.6	1.5
31	55.5	58.6	50.9	55.1	1.9
32	53.9	56.7	49.6	53.5	1.9
33	51.3	54.0	47.0	51.0	1.7
34	49.9	53.0	46.1	49.5	1.7
35	47.6	51.3	45.0	47.3	1.5
36	47.0	50.5	45.0	46.7	1.5
37	45.7	48.1	45.0	45.6	.9
38	45.1	45.9	45.0	45.1	.3
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	69.7	72.0	67.2	69.5	1.4
DBD	50.0	50.0	50.0	50.0	.0
OASPL	80.4	81.2	79.5	80.4	.5
PNL	82.6	84.3	81.1	82.5	.9
PNLT	82.6	84.3	81.1	82.5	.9

45°
(Microphone Location
Relative To Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 4, 90 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.6	68.2	66.9	67.5	.3
15	67.5	68.6	66.3	67.5	.7
16	60.9	62.6	59.2	60.8	.9
17	65.3	66.6	62.6	65.2	1.1
18	65.0	66.4	63.8	65.0	.7
19	63.9	67.7	61.1	63.5	1.8
20	57.8	60.4	53.2	57.5	1.7
21	63.2	65.1	61.5	63.0	1.0
22	68.1	70.0	64.3	67.9	1.3
23	64.1	65.3	62.4	64.1	.7
24	69.2	71.3	65.1	68.9	1.7
25	63.5	64.7	62.5	63.5	.6
26	66.2	69.0	63.3	65.8	1.8
27	63.2	64.5	59.7	62.9	1.5
28	61.4	63.3	57.4	61.0	1.8
29	59.6	62.3	56.8	59.4	1.3
30	57.4	60.2	54.1	57.2	1.6
31	57.1	59.9	53.1	56.7	1.9
32	55.7	60.2	51.5	55.1	2.1
33	53.2	57.0	49.4	52.9	1.7
34	52.3	55.5	48.4	52.0	1.6
35	49.6	52.6	45.6	49.2	1.9
36	48.5	51.4	45.5	48.2	1.6
37	47.7	50.2	45.0	47.3	1.7
38	46.0	48.1	45.0	45.9	.9
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	69.5	71.2	67.5	69.4	1.0
DBD	74.6	76.3	73.1	74.6	.8
OASPL	77.1	78.0	76.2	77.1	.6
PNL	82.1	83.9	80.6	82.0	.9
PNLT	82.1	83.9	80.6	82.0	1.0

0°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 5, 135 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	64.1	64.8	63.0	64.1	.5
15	66.6	67.7	65.6	66.6	.6
16	60.8	61.8	59.4	60.8	.6
17	63.9	65.1	60.8	63.8	1.1
18	69.5	71.0	67.8	69.4	.9
19	77.9	79.2	75.5	77.7	1.1
20	59.3	61.3	57.3	59.2	.9
21	63.8	64.5	62.2	63.8	.5
22	65.5	66.9	63.2	65.4	1.1
23	63.6	65.1	61.7	63.5	.9
24	67.2	68.8	64.8	67.0	1.4
25	66.1	67.6	63.7	65.9	1.1
26	64.5	68.6	60.7	63.8	2.4
27	62.8	65.4	59.1	62.3	2.0
28	61.3	65.2	56.7	60.5	2.5
29	57.5	61.3	53.8	56.9	2.2
30	55.6	59.4	51.8	55.0	2.3
31	55.2	59.5	51.7	54.7	2.0
32	53.0	60.0	48.2	51.6	3.2
33	49.7	53.4	46.8	49.2	2.0
34	48.1	52.4	45.0	47.5	2.1
35	46.0	49.0	45.0	45.8	1.2
36	45.5	47.7	45.0	45.5	.8
37	45.0	45.2	45.0	45.0	.1
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	68.3	70.5	66.0	68.0	1.5
DBD	74.9	76.6	72.9	74.7	1.2
OASPL	79.8	80.9	78.2	79.7	.9
PNL	81.7	83.5	79.9	81.5	1.2
PNLT	81.9	84.5	79.9	81.7	1.2

315°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 6, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	64.3	65.1	62.7	64.2	.6
15	65.6	67.5	64.2	65.5	.8
16	59.0	60.8	56.9	58.9	1.0
17	63.4	64.9	60.4	63.3	1.0
18	70.5	71.8	69.0	70.5	.7
19	82.6	83.5	81.3	82.5	.6
20	64.2	66.8	60.8	63.8	1.8
21	63.1	64.7	61.7	63.0	.8
22	71.0	72.7	68.7	70.9	1.1
23	65.2	66.7	63.7	65.1	.7
24	70.2	72.0	68.1	70.1	.9
25	67.8	70.1	63.7	67.5	1.6
26	67.7	70.6	63.9	67.3	1.9
27	65.0	67.8	62.3	64.8	1.3
28	63.3	65.3	60.0	63.1	1.3
29	61.9	63.9	59.1	61.8	1.2
30	61.1	63.3	57.7	60.8	1.4
31	59.7	61.7	55.8	59.6	1.3
32	56.0	58.0	52.9	55.8	1.2
33	52.5	54.1	49.4	52.4	1.2
34	51.0	52.9	49.1	50.9	1.2
35	49.2	51.4	47.4	49.0	1.0
36	48.8	50.7	46.3	48.6	1.2
37	47.4	49.0	45.3	47.3	1.1
38	45.6	47.2	45.0	45.6	.6
39	45.0	45.1	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	71.7	72.9	70.2	71.7	.8
DBD	78.1	78.9	77.0	78.1	.5
OASPL	83.6	84.3	82.6	83.5	.5
PNL	85.6	86.5	84.6	85.6	.6
PNLT	85.6	86.5	84.6	85.6	.6

270°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 7, 225 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	65.9	66.7	65.2	65.9	.4
15	66.7	67.7	65.2	66.6	.6
16	60.9	62.0	59.0	60.8	.8
17	65.5	67.2	64.5	65.4	.8
18	72.1	73.5	71.0	72.0	.6
19	83.6	84.3	82.5	83.6	.5
20	64.2	65.3	62.8	64.1	.9
21	64.4	67.7	61.5	64.2	1.3
22	70.9	73.0	68.6	70.7	1.1
23	70.7	73.1	67.8	70.5	1.2
24	76.9	78.7	74.4	76.8	1.2
25	71.3	72.8	69.4	71.2	.9
26	69.8	71.3	66.7	69.7	1.1
27	69.2	71.5	66.7	69.0	1.2
28	67.5	70.4	64.6	67.1	1.7
29	65.0	67.4	61.2	64.7	1.6
30	63.3	65.8	60.5	63.1	1.3
31	62.2	65.3	59.8	61.9	1.4
32	58.9	60.8	57.0	58.8	1.0
33	55.0	56.2	52.8	55.0	.8
34	51.4	52.7	49.3	51.3	.8
35	47.5	49.1	45.8	47.4	.8
36	45.7	47.3	45.0	45.6	.6
37	45.1	45.6	45.0	45.0	.1
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	74.9	76.6	73.5	74.8	.9
DBD	81.0	82.1	79.6	80.9	.6
OASPL	85.4	86.3	84.5	85.3	.4
PNL	88.0	89.1	87.0	88.0	.6
PNLT	88.0	89.1	87.0	88.0	.6

225°

(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 8, 270 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.6	68.1	67.0	67.6	.3
15	66.9	67.8	65.5	66.9	.6
16	60.7	61.7	59.3	60.7	.6
17	65.2	67.6	61.6	65.0	1.4
18	69.1	71.7	67.1	69.0	1.1
19	77.4	81.6	69.6	76.4	3.2
20	62.1	65.1	57.7	61.7	2.0
21	69.1	71.3	66.4	68.9	1.3
22	82.2	84.5	79.1	82.0	1.5
23	70.6	73.3	65.7	70.1	1.9
24	76.9	80.9	67.7	75.5	4.0
25	76.3	79.3	69.4	75.7	2.4
26	74.4	78.1	68.3	73.7	2.5
27	73.9	76.6	68.0	73.5	2.0
28	70.3	73.1	64.0	69.8	2.2
29	66.7	69.2	62.8	66.5	1.5
30	65.8	68.8	61.3	65.5	1.8
31	64.6	67.9	58.7	64.2	1.9
32	62.0	63.8	57.4	61.8	1.6
33	58.5	60.9	53.0	58.2	1.7
34	55.5	57.1	50.1	55.2	1.8
35	52.6	55.5	46.8	52.0	2.4
36	50.7	53.2	45.8	50.2	2.4
37	48.1	50.6	45.0	47.8	1.8
38	45.6	46.7	45.0	45.6	.6
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	78.0	80.6	74.3	77.8	1.5
DBD	83.7	85.6	81.4	83.5	1.2
OASPL	86.0	87.6	84.2	85.9	1.0
PNL	90.5	92.2	88.3	90.4	1.1
PNLT	90.5	92.2	88.3	90.4	1.1

180°
(Microphone Location
Relative to Helicopter)

TABLE C-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 9, 315 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	67.7	68.2	66.8	67.7	.3
15	67.5	68.4	66.9	67.5	.4
16	60.9	62.1	59.7	60.9	.5
17	64.9	67.9	62.7	64.6	1.4
18	67.5	68.2	66.6	67.4	.4
19	79.4	80.4	78.2	79.4	.6
20	59.4	60.3	58.8	59.4	.4
21	65.5	66.4	63.4	65.4	.8
22	76.3	77.9	73.3	76.1	1.2
23	70.6	71.7	69.3	70.5	.7
24	78.5	79.5	77.3	78.5	.6
25	70.6	72.5	67.8	70.4	1.4
26	72.4	75.4	68.9	72.0	1.8
27	72.1	74.8	66.7	71.7	2.0
28	69.2	72.3	65.5	68.9	1.8
29	66.8	70.6	62.5	66.4	2.0
30	65.2	69.0	61.6	64.7	2.1
31	63.9	67.6	60.5	63.3	2.2
32	60.4	63.7	56.4	59.8	2.3
33	56.3	59.8	53.7	55.9	1.8
34	54.2	58.3	50.9	53.7	2.0
35	50.3	52.8	46.9	50.0	1.6
36	48.1	50.7	46.2	48.0	1.2
37	46.0	48.1	45.0	45.9	.8
38	45.1	45.7	45.0	45.1	.2
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	76.5	78.8	75.0	76.3	1.0
DBD	91.4	92.9	90.5	91.4	.6
OASPL	84.3	85.1	83.7	84.3	.3
PNL	89.1	90.8	88.0	89.1	.7
PNLT	89.1	90.8	88.0	89.1	.7

135°
*(Microphone Location
Relative to Helicopter)*

TABLE C-III

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 8, 270 DEGREES,

MICROPHONE 75 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	73.9	74.5	73.5	73.9	.2
15	72.1	72.9	70.7	72.0	.5
16	66.6	67.5	65.4	66.5	.6
17	70.3	71.9	66.8	70.2	1.2
18	76.2	78.2	74.4	76.1	.9
19	83.2	87.5	76.1	82.2	3.1
20	66.7	69.6	62.4	66.2	2.1
21	74.9	76.6	72.4	74.8	1.1
22	88.0	89.7	84.4	87.8	1.4
23	77.0	79.3	72.1	76.6	2.0
24	83.4	87.2	73.3	81.8	4.2
25	62.5	85.2	75.8	82.0	2.2
26	79.9	83.0	75.6	79.6	1.8
27	80.9	82.9	77.5	80.7	1.4
28	77.4	79.8	72.7	77.1	1.7
29	74.7	77.3	72.1	74.5	1.3
30	74.0	76.7	71.4	73.8	1.4
31	73.2	75.6	69.5	73.0	1.5
32	70.5	73.1	67.6	70.4	1.3
33	66.7	69.3	64.4	66.5	1.3
34	64.7	67.9	61.1	64.4	1.7
35	63.2	66.3	58.0	62.7	2.2
36	62.4	66.5	55.6	61.6	2.7
37	60.4	64.9	55.0	59.8	2.3
38	58.0	61.5	54.1	57.5	2.0
39	55.1	57.6	51.2	54.8	1.6
40	50.3	52.3	47.4	50.2	1.2
DBA	85.0	86.2	82.6	84.9	1.0
DBD	90.3	91.8	88.2	90.2	1.0
OASPL	92.3	93.5	90.7	92.3	.9
PNL	97.7	98.9	95.7	97.6	1.0
PNLT	97.7	98.9	95.7	97.6	1.0

180°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 9, 315 DEGREES,

MICROPHONE 75 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.2	74.6	73.1	74.1	.3
15	72.3	73.2	71.5	72.3	.5
16	66.2	66.9	65.3	66.2	.3
17	69.5	71.8	67.4	69.4	1.0
18	74.2	75.1	73.3	74.2	.4
19	84.9	85.3	84.1	84.9	.5
20	64.3	64.9	63.2	64.3	.4
21	71.8	73.3	70.3	71.8	.8
22	82.4	84.3	79.9	82.3	1.2
23	77.6	78.8	76.2	77.5	.8
24	85.4	86.8	83.7	85.3	.9
25	77.1	78.8	74.0	76.9	1.3
26	78.7	80.4	74.7	78.4	1.7
27	78.9	81.7	73.7	78.4	2.2
28	77.0	79.5	73.7	76.7	1.8
29	75.4	78.2	72.1	75.1	1.5
30	73.7	76.1	71.0	73.5	1.2
31	72.2	74.8	70.2	72.1	1.1
32	68.6	71.5	66.5	68.4	1.2
33	64.6	66.3	62.6	64.5	1.1
34	64.3	67.5	60.3	64.0	1.6
35	62.9	67.0	58.8	62.4	1.9
36	61.5	64.8	57.4	61.2	1.8
37	59.9	62.1	56.3	59.6	1.6
38	57.5	60.5	54.3	57.3	1.4
39	55.0	57.7	52.3	54.9	1.1
40	51.7	53.9	49.6	51.5	1.1
DBA	83.9	86.0	81.8	83.7	1.1
DBD	88.9	90.6	87.3	88.9	.9
OASPL	91.0	92.1	89.9	91.0	.6
PNL	96.9	98.2	95.2	96.9	.8
PNLT	96.9	98.2	95.2	96.9	.8

135°
(Microphone Location
Relative To Helicopter)

TABLE C-VII
500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 16, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	69.6	71.3	62.3	69.3	1.9
15	68.1	71.1	58.2	67.6	2.4
16	61.7	64.1	55.4	61.2	2.2
17	64.1	66.5	57.7	63.7	2.1
18	68.8	70.5	62.2	68.6	1.6
19	74.0	79.2	63.9	72.0	4.0
20	60.0	61.4	25.4	59.0	5.8
21	67.2	70.2	58.0	66.1	3.4
22	72.2	75.0	62.0	71.0	3.7
23	72.9	76.1	57.0	70.6	5.6
24	74.0	76.6	62.5	72.7	4.0
25	68.0	69.5	62.0	67.8	1.5
26	75.5	78.5	72.2	71.4	14.3
27	71.6	75.1	29.2	68.9	8.1
28	70.5	73.0	57.5	68.9	4.8
29	69.2	72.2	52.0	66.7	6.5
30	67.1	69.2	47.0	63.8	7.9
31	66.0	68.1	44.3	62.7	7.8
32	67.3	69.7	45.3	63.8	8.3
33	65.7	68.0	47.3	62.6	7.6
34	64.9	67.4	45.3	61.6	7.8
35	62.1	64.4	43.0	59.1	7.4
36	59.3	62.3	28.7	55.9	8.3
37	54.8	57.3	39.8	53.0	5.1
38	334.2	345.4	45.0	78.6	88.7
39	43.8	45.1	38.7	43.6	1.5
40	40.7	45.0	33.2	39.4	3.2
DBA	78.3	80.8	62.8	76.4	5.3
DBD	83.0	85.2	69.3	81.6	4.5
OASPL	83.1	84.7	75.5	82.7	2.1
PNL	90.5	92.7	88.1	90.2	1.5
PNLT	90.6	92.7	88.1	90.3	1.5

90°
(Microphone Location
Relative to Helicopter)

TABLE C-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 16, ~~180~~ DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	68.9	72.3	65.4	68.7	1.5
15	65.8	70.6	57.6	64.3	3.8
16	61.4	64.9	56.5	60.7	2.4
17	64.1	67.4	59.2	63.5	2.4
18	65.3	67.3	61.0	65.0	1.7
19	70.8	73.1	67.3	70.5	1.7
20	56.5	58.4	53.8	56.4	1.0
21	61.1	64.4	58.2	60.8	1.5
22	66.5	67.5	64.0	66.4	.9
23	68.5	70.3	65.2	68.3	1.4
24	72.3	73.5	70.3	72.2	1.0
25	60.5	63.1	57.8	60.3	1.4
26	68.0	69.0	66.7	68.0	.6
27	65.1	66.8	63.3	65.0	.9
28	65.3	66.2	63.8	65.2	.6
29	63.9	64.9	62.4	63.8	.7
30	63.7	65.3	61.6	63.6	.9
31	64.3	66.7	61.4	64.1	1.2
32	62.9	64.4	57.9	62.6	1.6
33	62.2	63.7	58.0	62.1	1.4
34	61.2	63.9	57.5	61.0	1.5
35	58.2	60.0	54.1	58.0	1.5
36	55.5	57.1	51.1	55.3	1.6
37	50.8	53.0	45.5	50.4	2.0
38	44.7	47.3	39.2	44.3	2.0
39	37.8	40.7	35.0	37.5	1.5
40	35.0	35.0	35.0	35.0	.0
DFA	73.4	74.8	71.3	73.3	.9
DBD	88.8	90.1	86.3	88.7	1.0
OASPL	79.0	80.3	77.0	78.9	1.0
PNL	86.1	87.6	83.6	86.0	1.0
PNLT	86.1	87.6	83.6	86.0	1.0

270°
(Microphone Location
Relative to Helicopter)

TABLE C-VII
500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 47 G

OCTOBER 5, 1976

EVENT 16, 180 DEGREES, CENTERLINE MICROPHONE (SOFT SITE)

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	62.4	66.8	55.8	61.2	3.4
15	63.9	68.6	57.7	63.2	2.6
16	61.9	64.6	58.3	61.7	1.5
17	64.4	67.0	60.0	64.0	1.9
18	62.2	64.8	58.0	61.9	1.7
19	60.9	63.9	57.3	60.5	1.9
20	67.0	70.1	63.7	66.5	2.0
21	70.6	72.7	67.2	70.4	1.4
22	76.6	77.8	75.3	76.6	.7
23	64.2	66.3	62.2	64.0	1.1
24	68.9	71.7	66.6	68.7	1.2
25	73.4	74.8	72.2	73.3	.7
26	70.2	71.4	68.1	70.1	.9
27	69.3	71.5	67.3	69.2	1.2
28	68.9	70.9	66.8	68.7	1.4
29	68.3	71.1	66.2	68.1	1.3
30	66.6	69.3	64.3	66.4	1.2
31	66.2	68.1	63.7	66.1	1.1
32	65.6	66.9	63.5	65.5	1.0
33	64.8	66.3	62.6	64.7	1.1
34	64.2	66.4	62.2	64.1	1.0
35	61.2	64.5	58.6	61.0	1.4
36	58.9	61.7	56.2	58.6	1.5
37	55.9	59.4	52.9	55.5	1.7
38	51.0	53.3	47.8	50.7	1.5
39	44.8	47.5	40.8	44.6	1.6
40	35.6	37.2	35.0	35.6	.6
DBA	76.9	78.2	75.3	76.8	.7
DBD	82.2	83.5	81.0	82.2	.7
OASPL	81.9	82.8	80.9	81.9	.5
PNL	89.4	91.0	87.9	89.3	.8
PNLT	89.4	91.0	87.9	89.3	.8

(Helicopter Located
Directly Overhead)

TABLE C-VIII
Helicopter Noise Level Data
Bell 47 G

October 5, 1976

MAX RMS Noise Level - dBA re 20 μ Pa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST		MICROPHONE OFFSET TO THE EAST	
		150M	75 M	75 M	150M
5 Ft. HOVER 0°	2	75.3	77.8	84.8	77.5
	10	74.5 (270°)	79.8	84.3 (90°)	76.0
5 Ft. HOVER 45°	3	75.0	82.0	80.3	73.6
	11	75.0 (225°)	82.3	79.3 (45°)	72.0
5 Ft. HOVER 90°	4	76.5	82.3	77.0	70.8
	12	79.3 (180°)	85.8	77.0 (0°)	69.8
5 Ft. HOVER 135°	5	82.3	87.8	77.5	70.3
	14	82.5 (135°)	88.8	78.8 (315°)	72.5
5 Ft. HOVER 180°	6	79.0	83.3	80.3	73.0
		(90°)		(270°)	
5 Ft. HOVER 225°	7	71.3	76.8	84.8	77.3
		(45°)		(225°)	
5 Ft. HOVER 270°	8	69.0	74.8	86.3	80.0
		(0°)		(180°)	
5 Ft. HOVER 315°	9	69.0	75.3	85.5	79.3
		(315°)		(135°)	
500 FT HOVER 180°	16	82.0	89.8 *	80.5 *	76.8
		(90°)			(270°)
500 FT HOVER 270°	17	75.3	91.0 *	82.3 *	81.8
		(0°)			(180°)

* microphone AT centerline

TABLE C-VIII
Helicopter Noise Level Data

BELL 47G

OCTOBER 5, 1976

max RMS Noise Level - dBA @ 20 m Pa						
HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M CENTER LINE		MICROPHONE OFFSET TO THE EAST 150M CENTER LINE		
		OVER EXISTING SURFACE	OVER PLYWOOD	OVER EXISTING SURFACE	OVER EXISTING SURFACE	
3° GLIDE SLOPE		—	—	—	—	
6° GLIDE SLOPE	19	76.5	78.0	79.0	73.5	
	20	77.0	77.0	79.0	74.3	
	21	75.8	77.8	80.8	74.0	
9° GLIDE SLOPE	41	73.3	77.0	78.5	75.3	
	42	76.5	78.8	80.8	75.8	
	43	74.8	74.8	77.0	74.5	
60 MPH LEVEL FLYOVER	26	75.1	75.2	77.3	74.3	
68 MPH LEVEL FLYOVER	28	75.3	77.0	79.0	76.0	
	29	77.5	79.0	80.0	77.0	
75 MPH LEVEL FLYOVER	30	75.3	76.0	76.5	74.0	
	31	76.5	77.8	78.8	75.0	
	33	77.3	80.5	81.0	77.0	

TABLE C-VIII
Helicopter Noise Level Data

BELL 47G

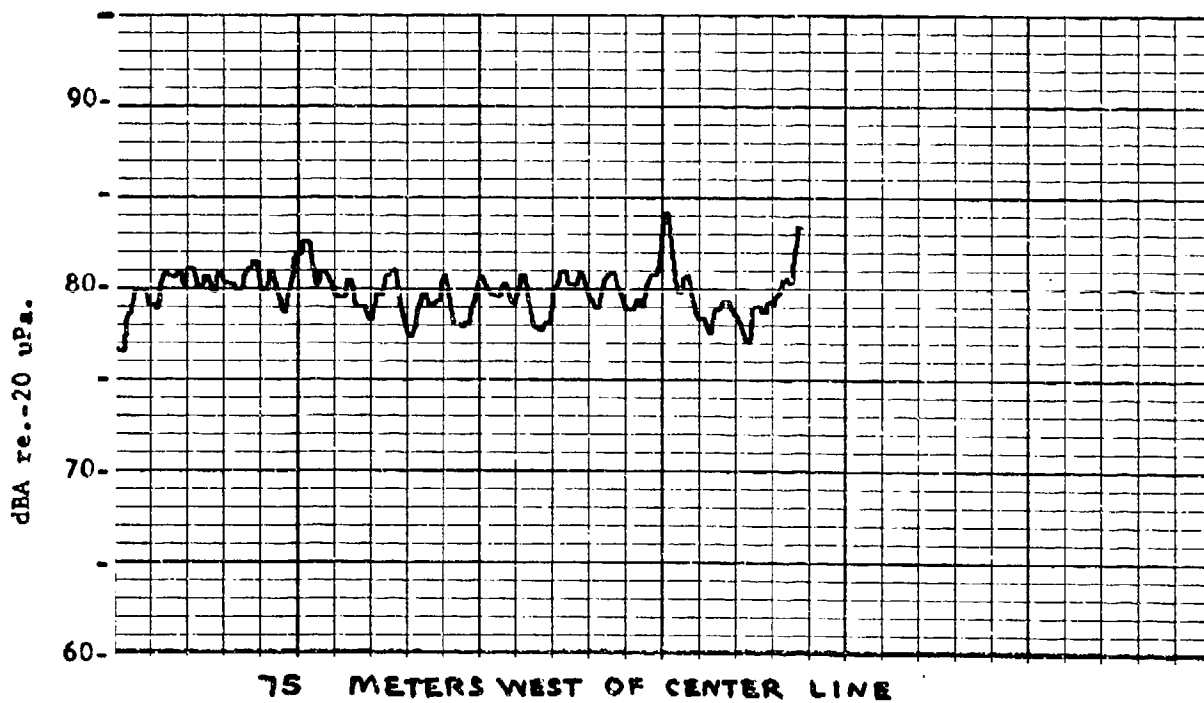
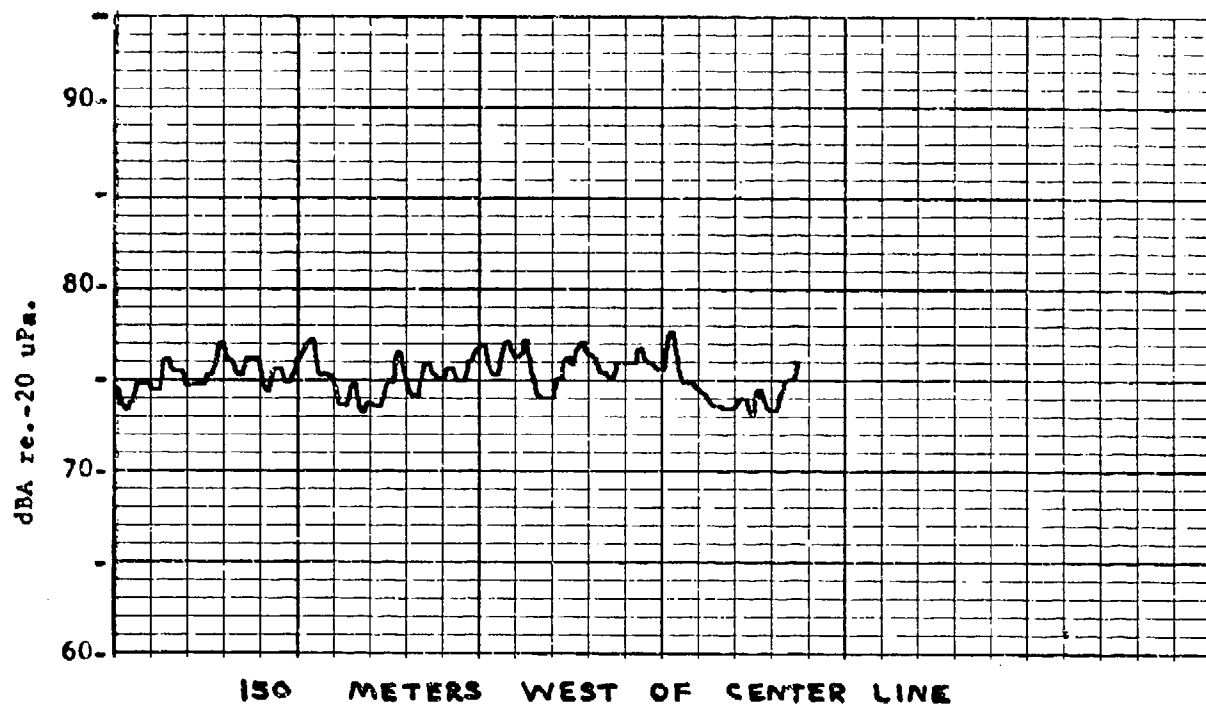
OCTOBER 5, 1976

max. RMS Noise Level - dBA re 20 μ P

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M CENTER LINE		MICROPHONE OFFSET TO THE EAST 150M CENTER LINE	
		OVER EXISTING Surface	OVER Plywood	OVER EXISTING Surface	OVER EXISTING Surface
82 MPH LEVEL FLY OVER	36	76.3	77.5	79.0	77.0
LEVEL FLY OVER					
LEVEL FLY OVER					
LEVEL FLY OVER					
LEVEL FLY OVER					
LEVEL FLY OVER					

TABLE C-IX

10 SEC

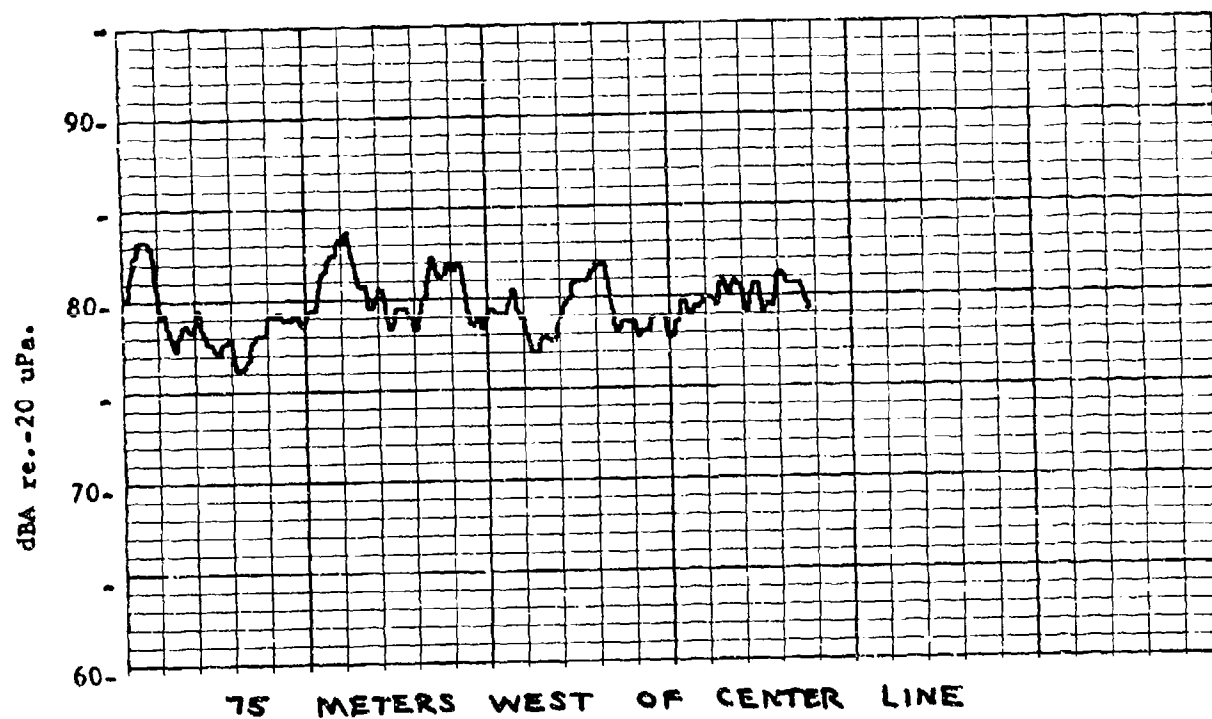
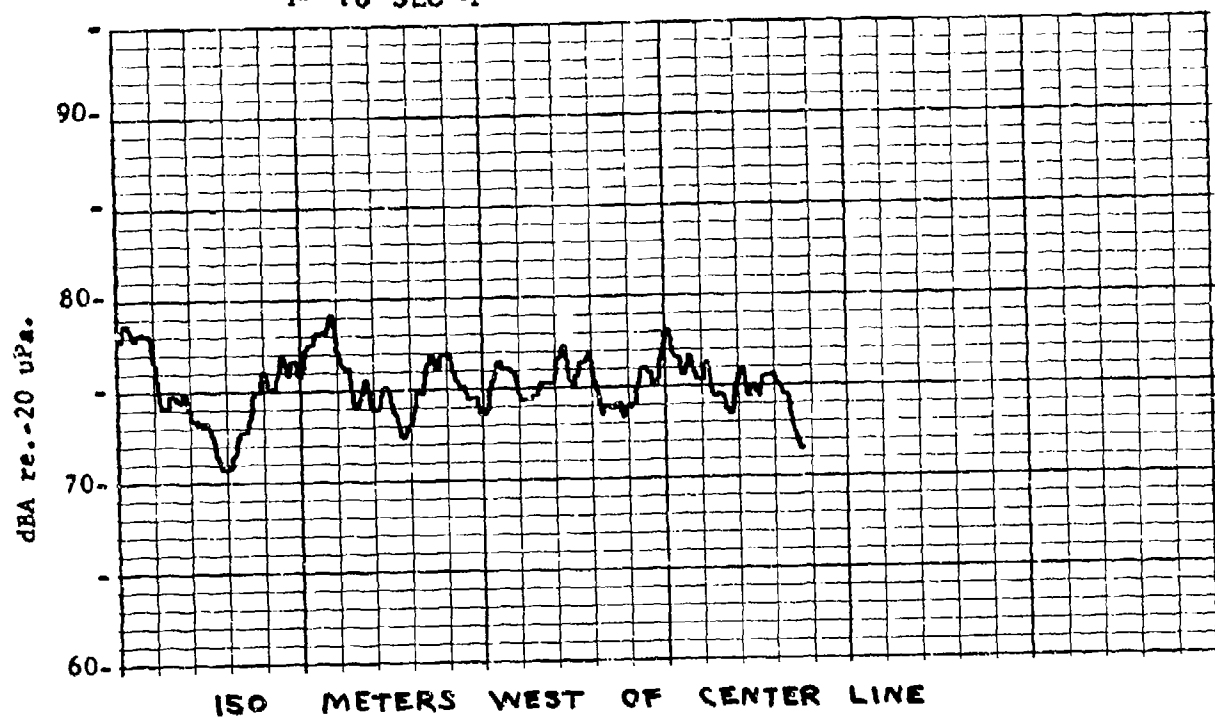


NOISE LEVEL TIME HISTORIES
 BELL 47-G HELICOPTER
 90° HOVER - 5 FT.

RUN 4

TABLE C-IX

10 SEC

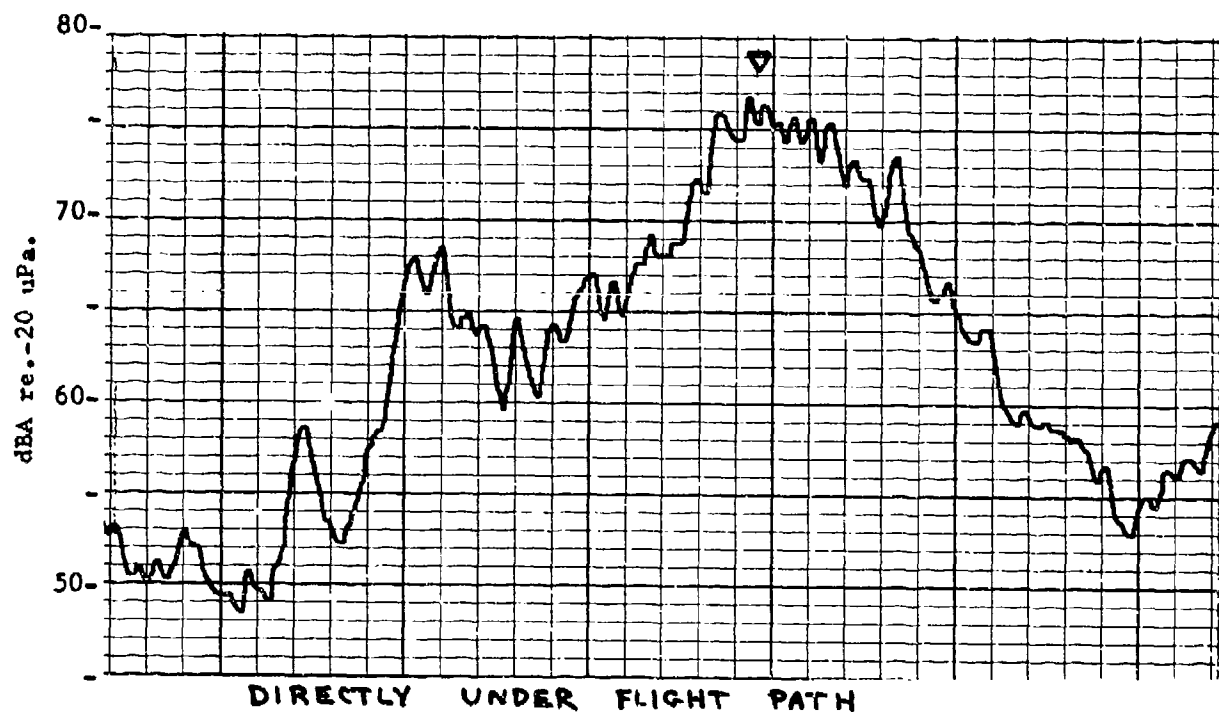
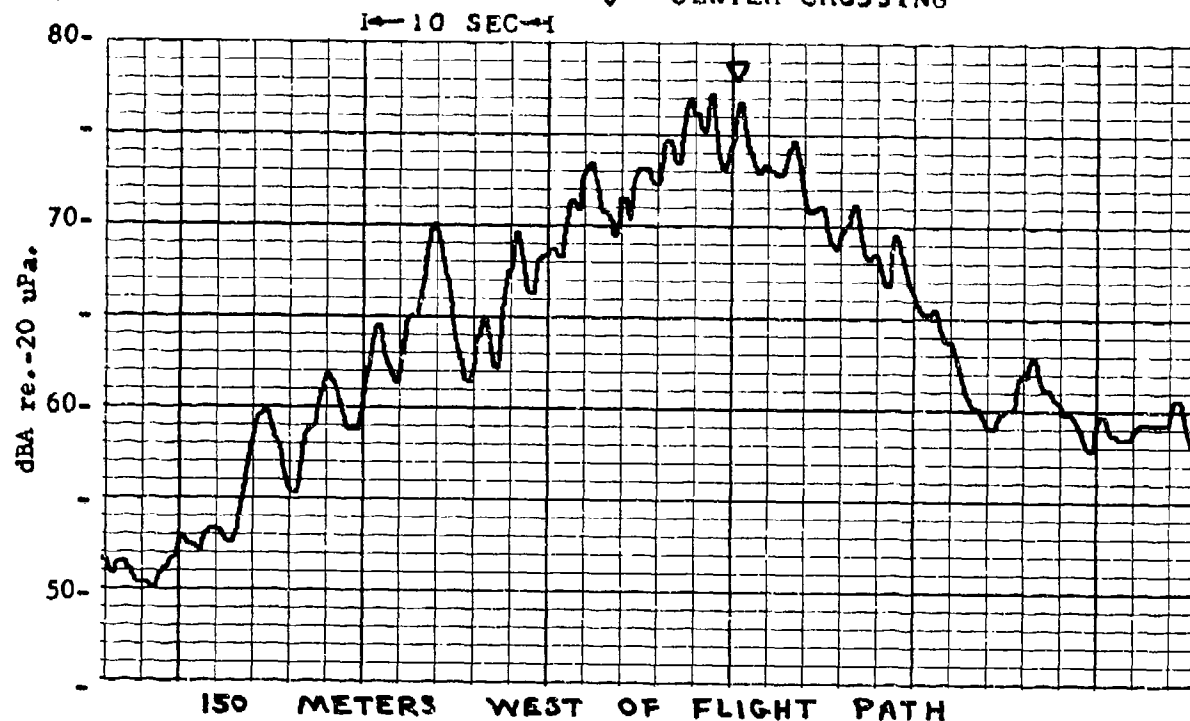


NOISE LEVEL TIME HISTORIES
 BELL 47-G HELICOPTER
 180° HOVER - 5 FT.

RUN 6

TABLE C-IX

▽ = CENTER CROSSING

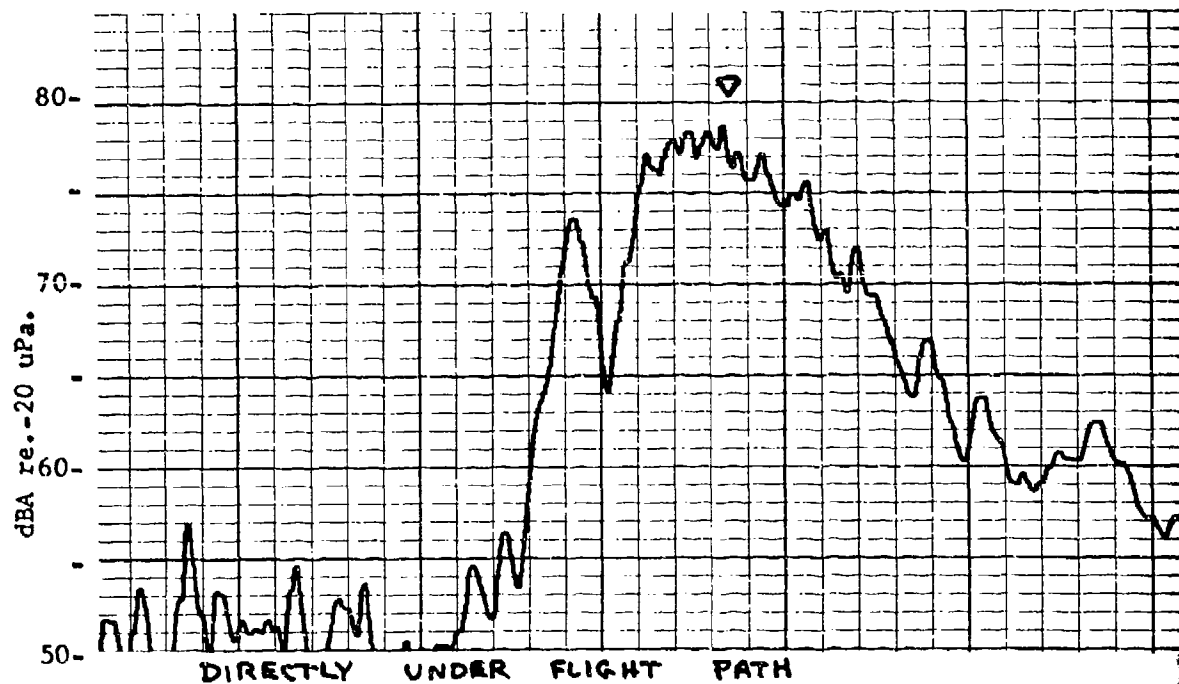
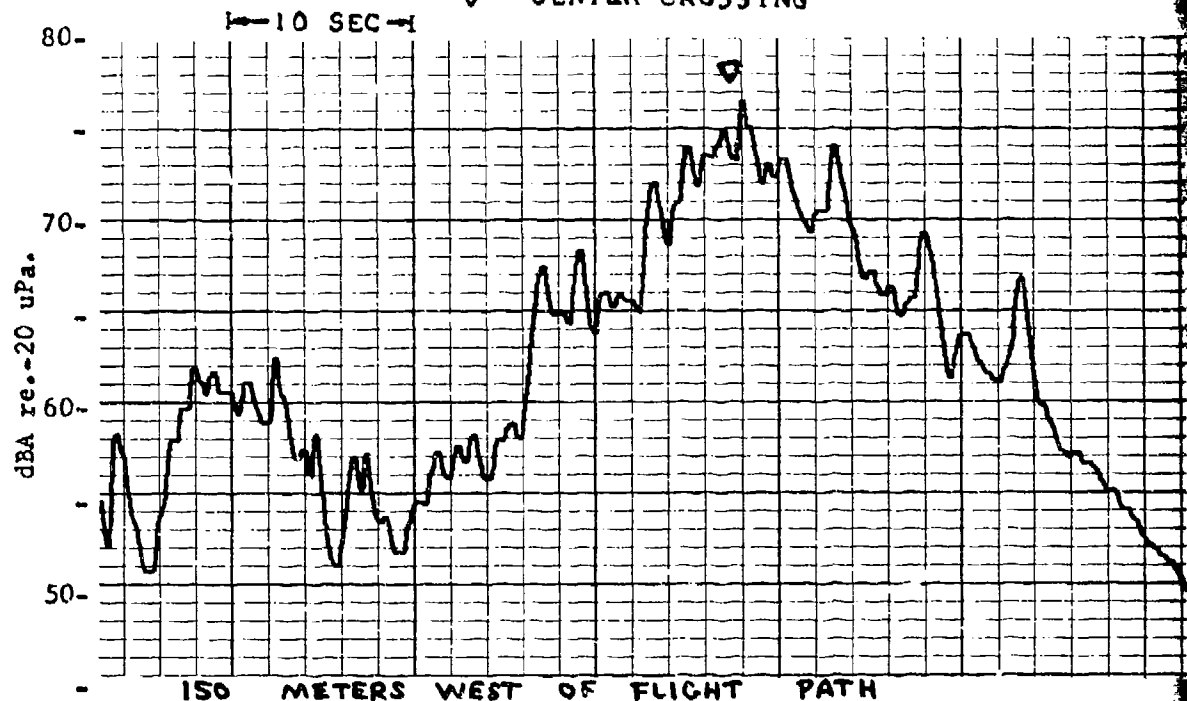


NOISE LEVEL TIME HISTORIES
 BELL 47-G HELICOPTER
 6° APPROACH

RUN 20

TABLE C-IX

▽ = CENTER CROSSING



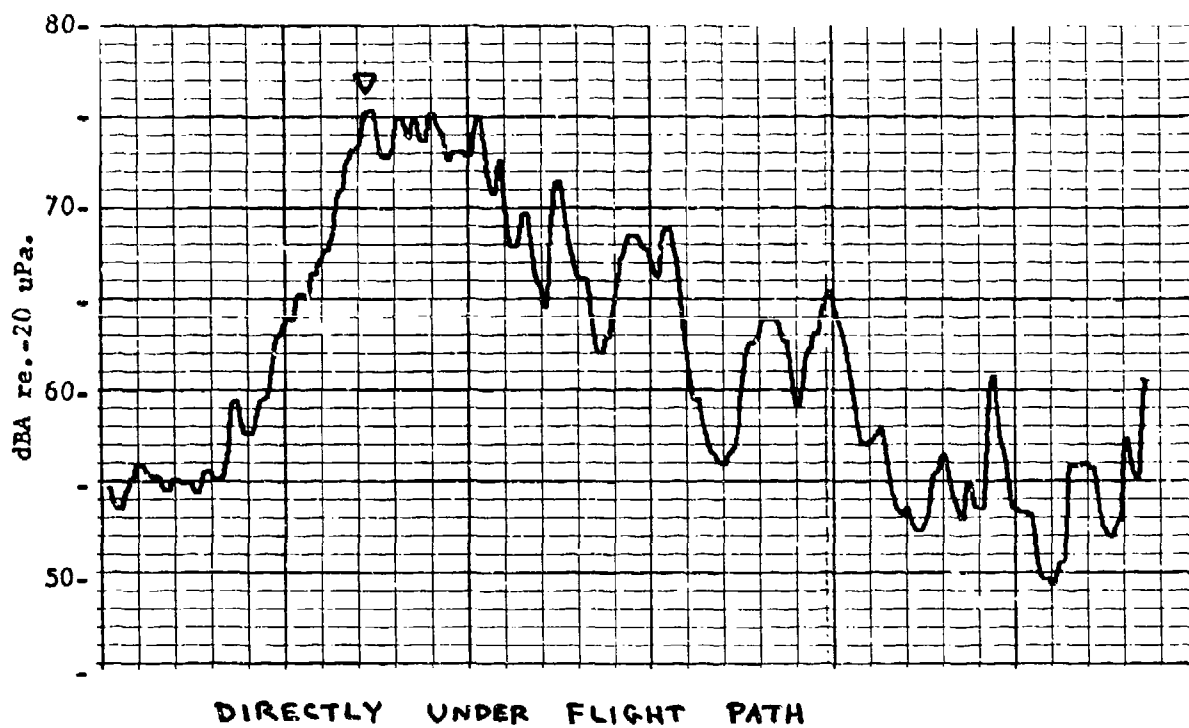
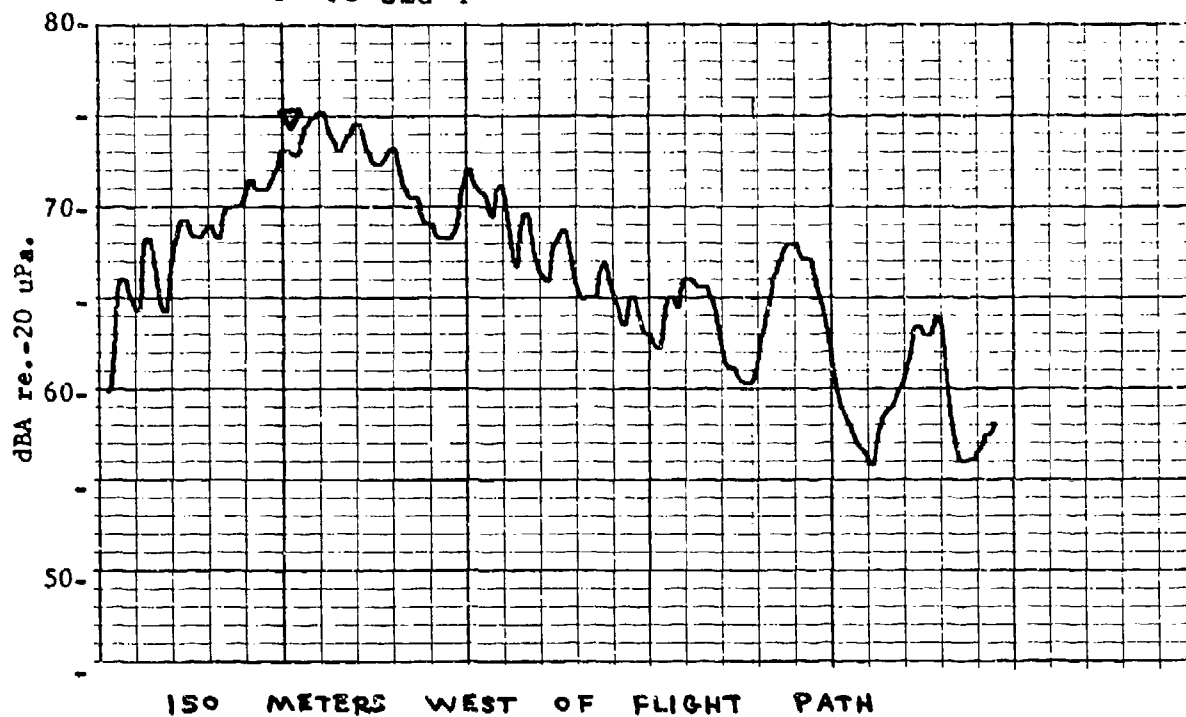
NOISE LEVEL TIME HISTORIES
BELL 47-G HELICOPTER
9° APPROACH

RUN 42

TABLE C-IX

← 10 SEC →

▽ = CENTER CROSSING



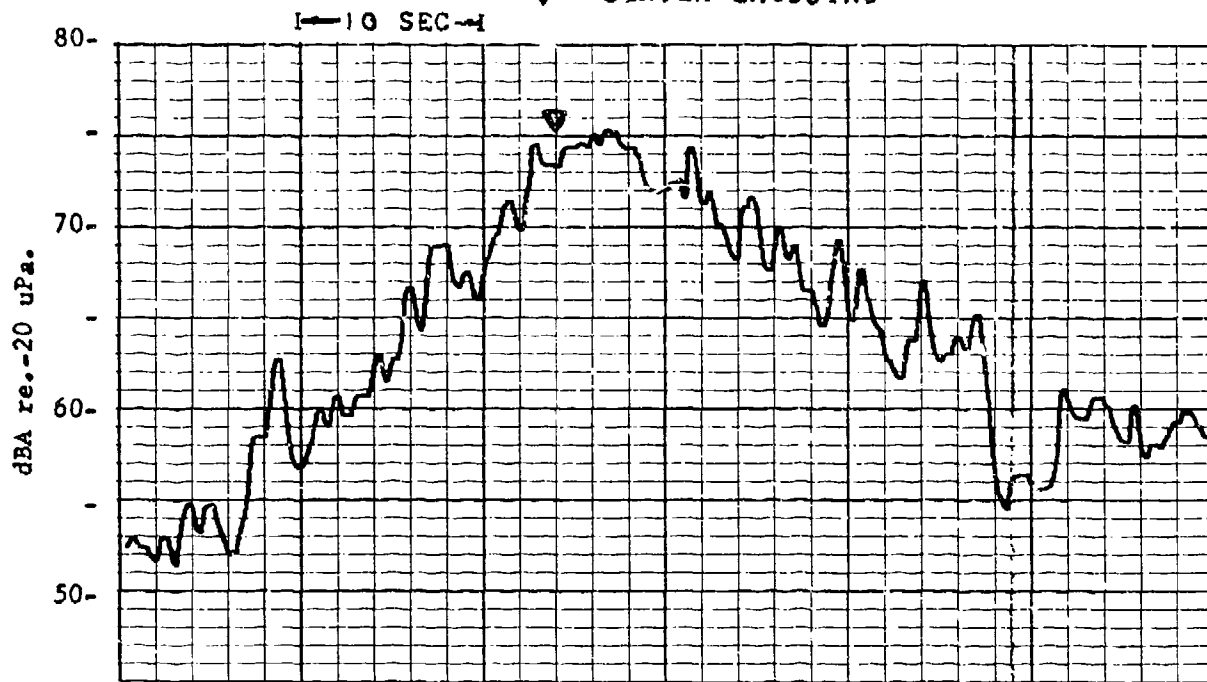
NOISE LEVEL TIME HISTORIES
BELL 47-G HELICOPTER

LEVEL FLYOVER - 60 MPH

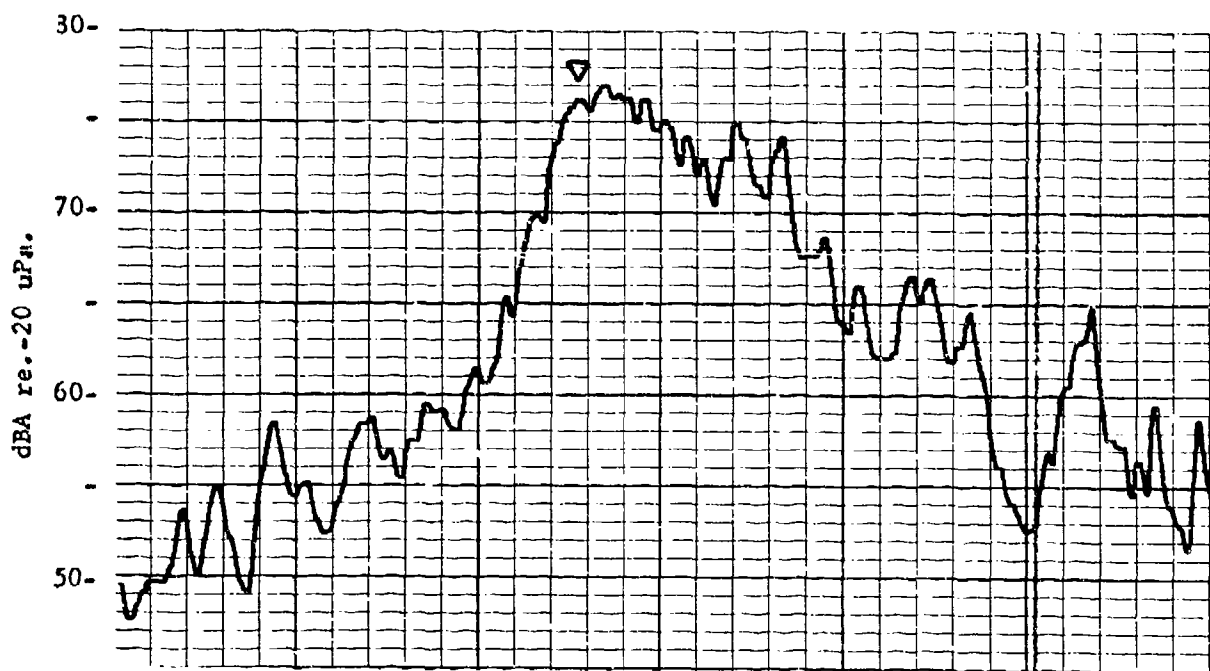
RUN 26

TABLE C-IX

▽ = CENTER CROSSING



150 METERS WEST OF FLIGHT PATH



DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES

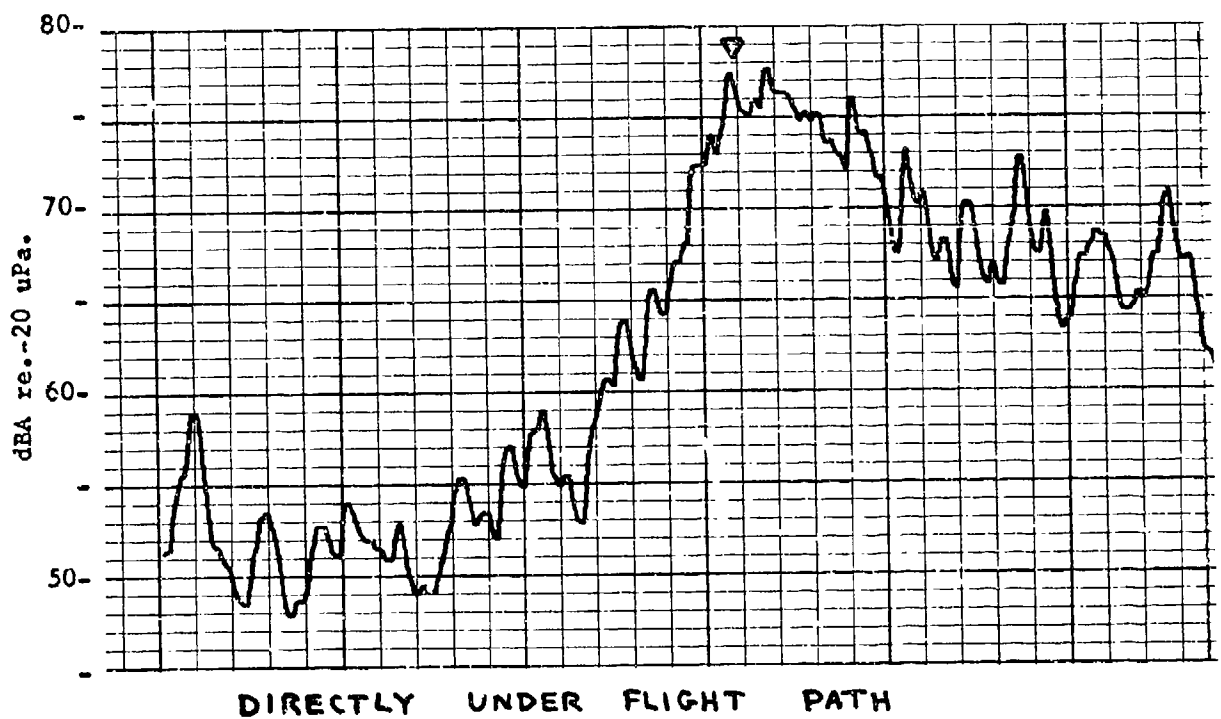
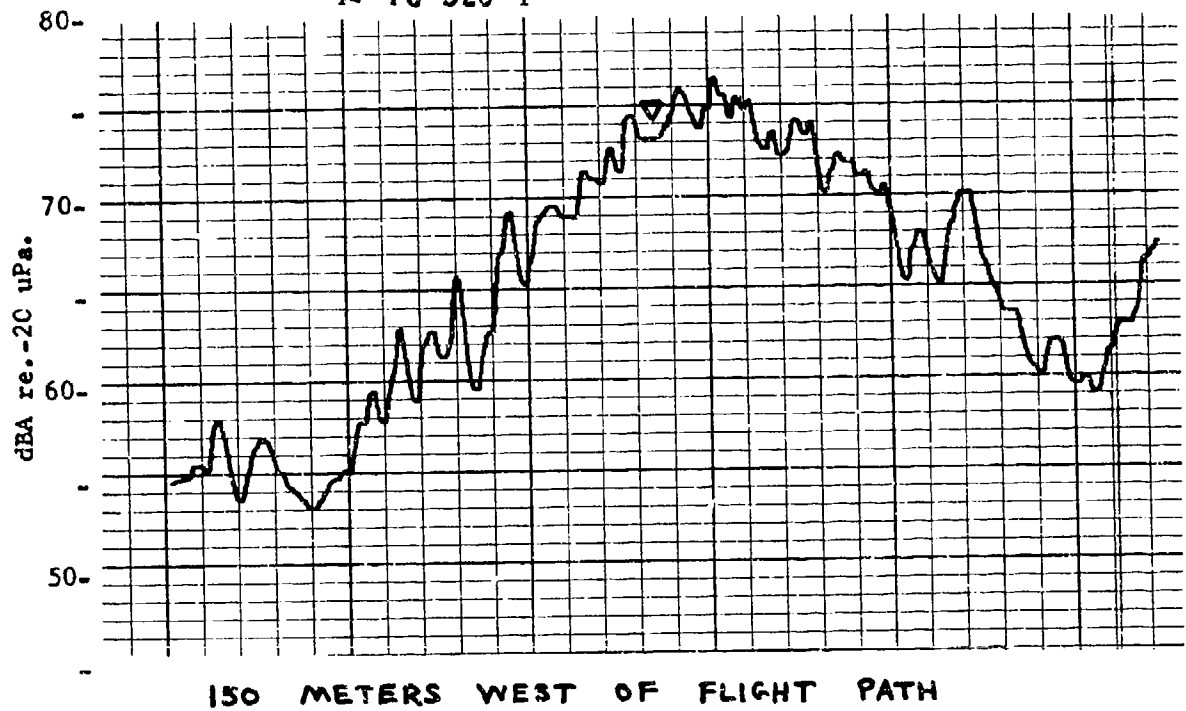
BELL 47-G HELICOPTER
LEVEL FLYOVER - 68 MPH

RUN 28

TABLE C-IX

▽ = CENTER CROSSING

← 10 SEC →



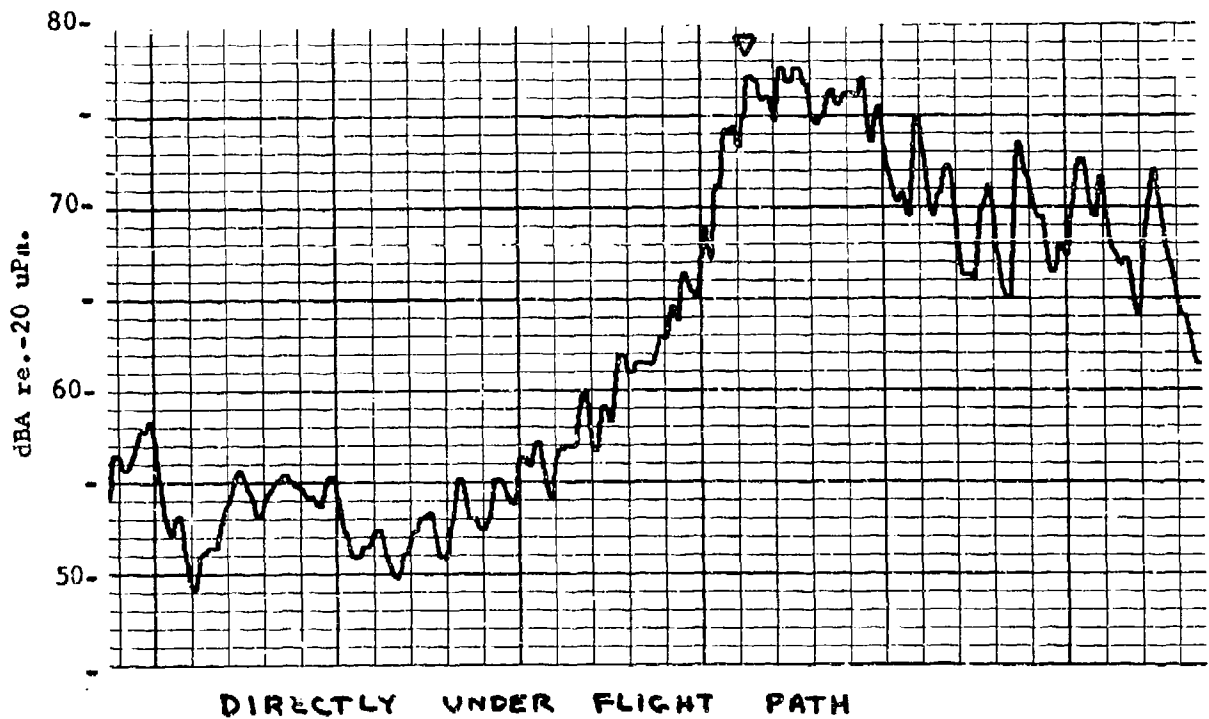
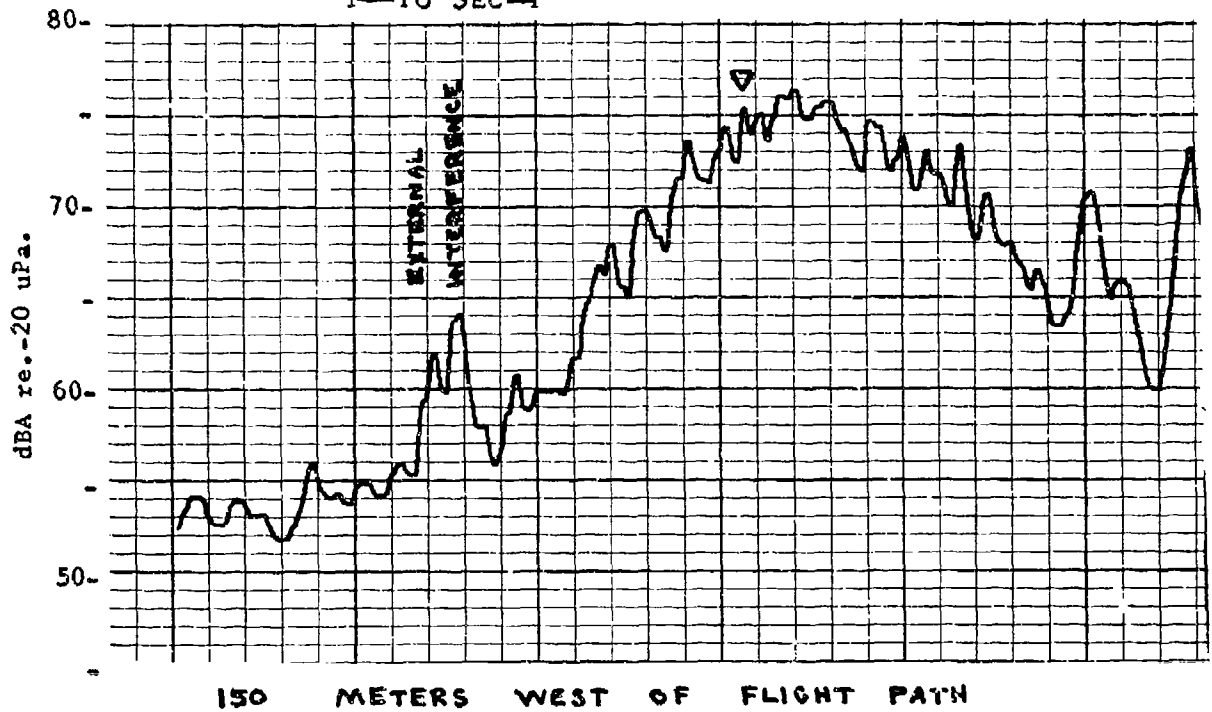
NOISE LEVEL TIME HISTORIES
BELL 47-G HELICOPTER
LEVEL FLYOVER - 75 MPH

RUN 31

TABLE C-IX

▽ = CENTER CROSSING

10 SEC



NOISE LEVEL TIME HISTORIES
BELL 47-G HELICOPTER
LEVEL FLYOVER - 82 MPH

RUN 36

DATA TABLE D

BELL 206L

TEST DATE: 10-14-76

TEST SITE: DULLES AIRPORT

SECTION - D	CONTENT	PAGE #
I	RUN LIST	295
II	GROUND AND FLIGHT LOG DATA	298
III	METEOROLOGICAL DATA	300
IV	LEVEL FLYOVER AND APPROACH NOISE DATA	301
V	TIME HISTORIES	303
VI	1/3-OCTAVE BAND SPECTRA--FLYOVER AND APPROACH	326
VII	1/3-OCTAVE BAND SPECTRA--5 FOOT HOVER	349
VIII	MAXIMUM dBA NOISE LEVEL (ALL RUNS)	368
IX	SELECTED dBA TIME HISTORIES--GRAPHIC PLOTS	371

THE NOISE LEVELS PRESENTED IN SECTIONS IV, V AND VI
 HAVE BEEN TABULATED FOR THE SELECTED RUNS AND MICROPHONE
 LOCATIONS INDICATED ON THE FOLLOWING PAGE.

TABLE D-I

LIST OF RUNS SELECTED FOR ANALYSIS

RUN#	TEST CONDITION	MICROPHONE LOCATION			
		WEST		EAST	
		150 m SIDELINE	CENTER LINE	CENTER LINE	150m SIDELINE
46	6° Approach 70 mph			X	
54	9° Approach 70 mph			X	
59	Level Flyover 70 mph			X	
60	<div> <div></div> <div>↓</div> <div>106 mph</div> <div>↓</div> <div>118 mph</div> <div>↓</div> <div>130 mph</div> <div>↓</div> <div>145 mph</div> <div>↓</div> </div>			X	
61				X	
63				X	
65				X	
66				X	
67				X	
68				X	
69				X	
70				X	
71		X		X	X
72		X		X	X
73		X		X	X
74				X	
76				X	
	Microphone Locations	Over Transpo Site Surface	Over Plywood	Over Transpo Site Surface	Over Transpo Site Surface
		296			

GENERAL COMMENTS

- o No data was taken for the 3° approach condition.
- o Weather conditions were very windy with gusts in the 15-20 mph range.
- o Because of the high wind conditions the microphone gains were improperly set too high. (They were set to record the very low frequency peak levels of the wind noise rather than the helicopter noise.) As a result the lower limit of the dynamic range of the data recording system was not low enough to include the 10dB down points necessary to calculate the Effective Perceived Noise Levels (EPNL) for most of the runs.

TABLE D-II Ground and Flight Log Data

Helicopter Model: Bell 206 L				Registration Number:				Test Date: Oct. 14, 1976									
Run	Time	Target Conditions		Actual Conditions		Ground Weather (10 ft.)			Comments								
		Type	Velocity	Altitude over Mts.	dB A	Heading	Air Speed	Rate of Descent		Altitude over Mts.	RPM	OAT	Temp	RH	Wind Speed	Wind Direction	
1-13	Hughes 300 C	Tested at Hover Conditions.															
14	9:15	Hover	0	5 ft.	86.0	0° N	0	0	5 ft.	6000							
15	9:16				87.0	45°				72							
16	9:17				89.5	90° E				60-80							
17	9:19				92.0	135°				70							
18	9:20				93.0	180° S				70-80							
19	9:21				86.5	225°				76							
20	9:23				85.5	270° W				76							
21	9:24				82.5	315°				74							
22	9:25				87.4	0° N				72							
23	9:25.5				87.0	45°				70-80							
24	9:26				88.0	90° E				69-80							
25	9:27				94.0	135°				70							
26-45	Hughes 300 C	Tested at Flyover Conditions.															
28	10:32	6° App.	70 mph	400 ft.	80.0	S	70 mph	500 ft/min	400 ft.	6000	51°F					Slightly High	
47	10:34				79.5		65	600	420							Abort	
48	10:37						70		400								
49	10:30				80.0		65	637	400								
50	10:31	Hover	0	500 ft.		270° W	0	0	500 ft.							Abort	
51	10:33					0° N			450							Because of the wind conditions it was difficult for the pilot to keep the helicopter directly overhead	
52	10:34				78.0	0° N			500								
53	10:36				79.5	0° N			↓								
54	10:38	9° App.	70 mph	400 ft.	78.5	S	70 mph	1000 ft/min	420 ft.							West of Q	
55	10:41				78.0			950	400								Abort
56	10:44				78.5			1300	↓								

TABLE D-II Ground and Flight Log Data

Helicopter Model: Bell 406 L

Registration

Number:

Test Date: Oct. 14, 1976

Run	Time	Target Conditions		Actual Conditions			Ground Weather (10 ft)				Comments				
		Type	Velocity	Altitude over Miss.	dBA	Heading	Air Speed	Rate of Descent	Altitude over Miss.	RPM		OAT	Temp	RH	Wind Speed
57-58	Hughes 300 C	Tested at 9° Approach				Conditions									
	Break for Lunch also waited for the wind to die down														
59	12:58	Level Flyover	70 mph	500 ft	73.0	S	60 mph	0	30%	400 ft	6000	55°F			2,100 ft low
60	1:00				75.6	N	70	↓	50	460					Slightly East of Q
61	1:02				80.0	S	75		35	530					
62	1:05	Level Flyover	106 mph	500 ft	—	S	100 mph	0	50%	500 ft					Abort (Concord Flight)
63	1:06				25.5		106	↓	50						Abort
64	1:07				—		106	↓	60						West of Q
65	1:08				26.0		106	↓	60						
66	1:10				24.0		106	↓	60						Slightly West of Q
67	1:12	Level Flyover	118 mph	500 ft	22.0	S	115 mph	0	65%	480 ft					
68	1:14				25.0		115	↓	66	500					
69	1:17				22.3		117	↓	68	510					
70	1:21				23.0		112	↓	62	500					
71	1:24	Level Flyover	130 mph	500 ft	26.0	S	120 mph	0	78%	560 ft					
72	1:26				27.5		130	↓	↓	580					
73	1:28				26.5		125	↓		500					
74	1:30	Level Flyover	145 mph	500 ft	28.5	S	145 mph	0	87%	550 ft					Abort
75	1:31				27.0		↓	↓	87	530					
76	1:32				26.5		140 mph	↓	80	500					

TABLE D-III
 METEOROLOGICAL DATA
 DULLES INTERNATIONAL AIRPORT
 OCTOBER 14, 1976

TIME (Hours)	TEMP. (°F)	BAR. PRESS. (mm Hg)	REL. HUM. (%)	WIND SPEED (mph)	WIND DIRECTION (Degrees)	REMARKS
0845	52		38	6-10	310	
0900	53	757	37	6-12	320	Sky-Clear
0915	54		36	10-12	310	
0930	54		34	8-14	310	
0945	55		34	6-16	315	
1000	55		34	7-18	330	
1015	55		34	10-22	320	
1030	56		34	12-15	310	
1045	56		34	12-21	320	
1100	56		34	3-20	330	
1115	56		34	10-18	330	
1130	56		34	8-15	320	
1145	57		34	8-15	310	
1200	58		33	10-23	310	
1215	57		33	8-16	320	
1230	57		32	10-18	320	
1245	58		32	10-18	330	
1300	59		32	12-15	340	
1315	59		31	10-14	320	
1330	60		30	10-13	290	

TABLE D-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

BELL 206 L

OCTOBER 28 1976

MICROPHONE OFFSET 150 METERS WEST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
71	---	75.2	79.7	84.2	87.9	89.3	71.1	18.0	---	1.4
72	---	76.5	80.4	86.5	89.3	91.1	72.6	16.0	---	1.9
73	---	74.5	79.1	83.6	87.5	87.5	69.1	23.0	---	.0

MICROPHONE OFFSET 150 METERS EAST
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEQ	DUR(A)	DUR(P)	TC
71	----	73.4	77.5	85.4	86.8	86.8	69.9	17.0	---	.0
72	---	71.9	76.4	82.6	85.9	85.9	67.2	28.0	---	.0
73	---	73.3	77.6	83.1	86.6	87.6	68.0	27.5	---	1.1

--- INSUFFICIENT DATA - 10DB DOWN POINTS NOT DISCERNIBLE ABOVE
AMBIENT LEVELS

TABLE D-IV

HELICOPTER APPROACH AND FLYOVER NOISE DATA

BELL 206 L

OCTOBER 28 1976

CENTERLINE MICROPHONE (SOFT SITE)
(LEVELS-DB RE 20 MICRO PA)

EVENT	EPNL	DBA(M)	DBD(M)	OASPL	PNL(M)	PNLT(M)	LEG	DUR(A)	DUR(P)	TC
46	89.0	76.4	80.9	83.6	87.9	87.9	72.3	28.0	30.5	.0
54	87.8	75.7	80.8	85.7	87.5	87.5	71.1	25.5	27.0	.0
59	---	78.7	83.1	86.9	91.4	91.4	71.8	28.5	---	.0
60	---	76.3	81.3	84.5	89.8	89.8	71.2	18.0	---	.0
61	---	78.8	84.1	87.0	91.9	91.9	74.4	26.0	---	.0
63	---	76.8	81.4	84.0	89.9	89.9	70.5	18.5	---	.0
65	---	75.1	80.9	85.0	89.1	89.1	71.0	16.0	---	.0
66	---	73.4	79.5	82.9	87.7	87.7	69.7	18.0	---	.0
67	89.9	82.2	86.9	90.2	95.0	95.0	75.4	11.0	12.0	.0
68	---	72.8	79.2	83.6	87.5	88.8	68.9	24.0	---	1.3
69	---	77.2	83.2	85.2	90.5	90.5	72.4	10.0	---	.0
70	---	75.9	81.5	83.8	88.9	88.9	72.0	9.0	---	.0
71	---	75.4	80.8	84.4	88.8	89.1	70.5	25.5	---	1.8
72	---	74.3	79.6	83.5	88.1	88.1	70.7	19.5	---	1.7
73	---	76.3	81.8	83.8	89.6	89.6	71.2	16.0	---	.0
74	---	76.1	81.9	86.4	89.7	89.7	71.3	18.5	---	.0
76	89.7	76.5	81.3	86.2	89.6	91.3	72.3	15.5	22.0	1.7

--- INSUFFICIENT DATA - 10DB DOWN POINTS NOT DISCERNIBLE ABOVE
AMBIENT LEVELS

NO DATA REDUCTIONS - CENTERLINE MICROPHONE (HARD SITE)

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 71, 130 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.2	71.0	76.3	81.8	81.8	20.6	9.8
2	62.6	72.0	77.6	82.3	82.3	19.7	9.4
3	63.8	73.0	79.0	82.8	82.8	19.0	9.2
4	65.0	73.9	80.3	83.3	83.3	18.3	8.9
5	65.6	74.3	81.0	83.6	83.6	18.0	8.7
6	65.7	74.4	81.4	83.8	83.8	18.1	8.7
7	65.4	74.0	81.4	83.6	83.6	18.2	8.6
8	66.7	74.5	81.7	83.8	85.2	17.1	7.8
9	68.5	75.2	82.0	84.4	85.4	15.9	6.7
10	68.6	75.5	82.2	84.7	85.7	16.1	6.9
11	67.8	75.3	82.5	84.8	84.8	17.0	7.5
12	70.6	77.2	83.2	86.1	87.2	15.5	6.6
13	73.9	79.4	84.0	87.9	89.3	14.0	5.5
14	73.9	79.3	83.8	87.9	89.2	14.0	5.4
15	72.8	78.4	83.6	87.2	88.3	14.4	5.6
16	69.9	76.7	83.4	85.5	85.5	15.6	6.8
17	69.9	76.5	83.4	85.4	85.4	15.5	6.6
18	69.3	76.1	83.2	85.1	85.1	15.8	6.8
19	69.7	75.9	83.0	85.0	85.0	15.3	6.2
20	69.6	75.7	82.8	84.8	84.8	15.2	6.1
21	70.6	76.1	82.9	85.3	86.7	14.7	5.5
22	70.8	76.2	83.0	85.3	86.4	14.5	5.4
23	72.8	77.6	84.0	86.1	86.1	13.3	4.8
24	74.7	79.1	84.2	87.2	87.2	12.5	4.4
25	75.2	79.5	83.7	87.6	87.6	12.4	4.3
O.H. → 26	74.7	79.3	82.6	87.2	37.2	12.5	4.6
27	74.8	79.5	82.5	87.5	87.5	12.7	4.7
28	74.8	79.7	83.1	87.8	87.8	13.0	4.9
29	74.1	79.0	82.8	87.4	87.4	13.3	4.9
30	72.1	77.4	81.7	85.9	85.9	13.8	5.3
31	70.4	75.6	80.1	84.1	84.1	13.7	5.2
32	69.6	74.8	78.8	83.5	83.5	13.9	5.2
33	68.1	73.7	77.8	82.9	82.9	14.8	5.6
34	67.4	73.4	77.2	82.7	82.7	15.3	6.0
35	67.9	73.4	76.5	82.8	82.8	14.9	5.5
36	67.6	73.2	76.0	82.7	84.1	14.9	5.4
37	67.7	73.1	75.2	82.6	83.8	14.9	5.4
38	66.6	72.7	75.4	82.4	82.4	15.8	6.1
39	65.2	71.9	74.6	82.1	82.1	16.9	6.7
40	63.8	71.2	73.7	81.7	81.7	17.9	7.4
41	62.7	70.6	72.0	81.2	81.2	18.5	7.9
42	62.9	70.8	71.2	81.1	81.1	18.2	7.9

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 72, 130 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	65.2	73.7	81.3	83.2	83.2	18.0	8.5
2	65.1	74.0	81.5	83.3	83.3	18.2	8.9
3	65.2	74.9	82.4	83.9	83.9	18.7	9.7
4	66.1	75.5	82.8	84.7	84.7	18.6	9.4
5	68.0	76.4	83.5	85.7	85.7	17.7	8.4
6	71.0	77.4	83.9	86.5	87.6	15.5	6.4
7	71.5	77.7	84.1	86.5	87.7	15.0	6.2
8	71.4	77.4	84.2	86.4	87.4	15.0	6.0
9	70.4	76.9	84.0	85.9	85.9	15.5	6.5
10	71.1	77.0	84.1	86.0	86.0	14.9	5.9
11	73.5	78.5	84.6	87.1	87.1	13.6	5.0
12	74.7	79.1	85.3	88.0	89.3	13.3	4.4
13	76.2	80.2	86.2	89.3	91.1	13.1	4.0
14	75.7	80.0	86.5	89.3	91.1	13.6	4.3
15	74.6	79.4	85.9	88.5	89.8	13.9	4.8
16	71.9	77.7	84.6	86.4	87.8	14.5	5.8
17	70.0	76.1	83.0	84.7	86.8	14.7	6.1
18	70.5	76.1	82.3	84.8	86.0	14.3	5.6
19	72.8	77.7	83.6	86.9	86.9	14.1	4.9
20	75.0	79.1	84.4	88.4	88.4	13.4	4.1
21	76.5	80.4	84.8	89.0	89.0	12.5	3.9
22	76.1	80.1	83.8	88.5	88.5	12.4	4.0
OH → 23	74.7	79.1	82.5	87.1	87.1	12.4	4.4
24	72.6	77.6	81.4	85.9	85.9	13.3	5.0
25	72.8	77.5	81.3	85.8	85.8	13.0	4.7
26	72.8	77.5	81.4	85.8	85.8	13.0	4.7
27	72.1	76.9	81.4	85.3	85.3	13.2	4.8
28	70.9	75.8	81.3	84.4	84.4	13.5	4.9
29	70.2	75.3	81.8	84.3	84.3	14.1	5.1
30	69.7	74.9	81.7	84.0	84.0	14.3	5.2
31	69.7	75.0	80.8	83.9	83.9	14.2	5.3
32	69.4	74.7	79.8	83.5	83.5	14.1	5.3
33	69.1	74.3	78.6	83.3	83.3	14.2	5.2
34	67.7	73.6	80.0	83.1	83.1	15.4	5.9
35	66.3	72.8	79.4	82.7	82.7	16.4	6.5
36	64.6	72.1	79.0	82.3	82.3	17.7	7.5
37	63.4	71.4	77.4	81.7	81.7	18.3	8.0
38	63.1	71.3	77.5	81.7	81.7	18.6	8.2

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 73, 130 MPH FLY BY, MIC. 150 METERS WEST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	60.3	70.3	73.4	81.2	81.2	20.9	10.0
3	60.3	70.3	72.9	81.1	81.1	20.8	10.0
5	60.7	70.7	75.6	81.8	81.8	21.1	10.0
7	65.2	73.2	79.8	83.3	83.3	18.1	8.7
9	65.4	73.7	79.1	83.2	83.2	17.8	8.3
11	65.1	74.0	79.9	83.3	83.3	18.2	8.9
13	65.8	74.4	80.7	83.6	83.6	17.8	8.6
15	64.6	72.7	78.3	82.9	82.9	18.3	8.1
17	62.8	72.0	77.0	82.3	82.3	19.5	9.2
19	62.6	71.9	77.7	82.3	82.3	19.7	9.3
21	62.3	72.0	78.3	82.3	82.3	20.0	9.7
23	62.9	72.8	79.2	82.7	82.7	19.8	9.9
25	65.9	74.5	81.0	83.5	83.5	17.6	8.6
27	66.9	75.4	82.5	84.2	84.2	17.3	8.5
29	65.9	74.7	82.5	83.7	83.7	17.8	8.8
31	69.3	75.6	83.1	84.7	84.7	15.4	6.3
33	70.3	76.2	83.4	85.5	85.5	15.2	5.9
35	70.4	76.2	82.6	85.2	85.2	14.8	5.8
OH → 37	73.3	78.2	83.4	86.2	86.2	12.9	4.9
39	74.5	79.1	82.5	87.5	87.5	13.0	4.6
41	74.3	78.9	81.6	87.4	87.4	13.1	4.6
43	72.4	77.0	79.4	85.7	85.7	13.3	4.6
45	70.5	75.0	77.5	83.6	83.6	13.1	4.5
47	68.7	73.7	75.9	83.0	83.0	14.3	5.0
49	68.0	73.0	74.4	82.5	83.9	14.5	5.0
51	65.5	71.9	72.0	81.7	81.7	16.2	6.4
53	63.6	71.3	71.0	81.2	81.2	17.6	7.7
55	63.1	70.8	70.8	81.0	81.0	17.9	7.7
57	62.8	70.7	70.4	81.1	81.1	18.3	7.9
59	62.6	70.4	70.2	81.1	81.1	18.5	7.8

TABLE D-V
NOISE LEVEL TIME HISTORY DATA
BELL 206 L

OCTOBER 14 1976

EVENT 71, 130 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
3	57.9	66.6	67.5	80.7	80.7	22.8	8.7
5	57.3	66.8	68.6	80.7	80.7	23.4	9.5
7	57.3	66.8	70.0	80.7	80.7	23.4	9.5
9	57.5	66.1	67.3	80.7	80.7	23.2	8.6
11	57.5	66.2	70.7	80.7	80.7	23.2	8.7
13	57.9	66.3	71.8	80.7	80.7	22.8	8.4
15	57.8	66.3	70.0	80.7	80.7	22.9	8.5
17	57.5	66.2	67.4	80.7	80.7	23.2	8.7
19	57.7	66.7	69.6	80.8	80.8	23.1	9.0
21	58.3	67.5	72.0	81.0	81.0	22.7	9.2
23	60.2	69.4	76.2	81.8	81.8	21.6	9.2
25	63.1	72.1	79.0	82.8	82.8	19.7	9.0
27	60.9	69.7	77.4	81.9	81.9	21.0	8.8
29	58.7	67.9	76.1	81.2	81.2	22.5	9.2
31	59.1	68.5	76.0	81.5	81.5	22.4	9.4
33	59.9	68.8	77.0	81.7	81.7	21.6	8.9
35	64.0	72.7	81.0	83.1	83.1	19.1	8.7
37	68.6	76.7	85.4	85.5	85.5	16.9	8.1
39	66.3	73.2	82.2	83.6	83.6	17.3	6.9
41	65.0	73.9	82.2	83.8	83.8	18.8	8.9
43	67.8	75.6	84.1	85.1	85.1	17.3	7.8
45	71.1	77.3	84.8	86.6	86.6	15.5	6.2
46	71.6	77.5	84.5	86.8	86.8	15.2	5.9
48	68.7	75.1	82.8	84.7	84.7	16.0	6.4
50	68.2	73.7	81.0	83.6	83.6	15.4	5.5
52	71.3	75.4	81.1	84.8	86.0	13.5	4.1
54	71.3	75.3	79.9	84.5	84.5	13.2	4.0
56	72.6	76.4	80.9	85.0	85.0	12.4	3.8
QH → 58	73.4	77.2	82.4	85.8	85.8	12.4	3.8
60	72.2	76.4	81.2	84.7	84.7	12.5	4.2
62	70.6	74.7	78.3	83.6	83.6	13.0	4.1
64	69.1	72.9	76.7	82.8	82.8	13.7	3.8
66	66.9	71.5	76.2	82.1	82.1	15.2	4.6
68	62.6	69.0	73.1	81.2	81.2	18.6	6.4
70	62.5	68.8	74.2	81.1	81.1	18.6	6.3
72	61.3	68.2	73.7	81.1	81.1	19.8	6.9
74	60.3	67.5	72.0	80.8	80.8	20.5	7.2

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 72, 130 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	53.4	62.4	70.7	76.2	76.2	22.8	9.0
3	58.1	67.0	73.2	80.8	80.8	22.7	8.9
5	59.5	68.0	73.4	81.1	81.1	21.6	8.5
7	58.6	67.5	74.1	80.9	80.9	22.3	8.9
9	57.7	66.7	73.8	80.7	80.7	23.0	9.0
11	57.7	66.3	72.6	80.7	80.7	23.0	8.6
13	57.9	66.3	71.2	80.7	80.7	22.8	8.4
15	58.9	66.9	73.0	80.9	80.9	22.0	8.0
17	58.8	67.2	73.4	81.0	81.0	22.2	6.4
19	59.0	67.6	74.5	81.1	81.1	22.1	8.6
21	59.6	68.1	74.9	81.4	81.4	21.8	8.5
23	62.3	70.4	77.4	82.2	82.2	19.9	8.1
25	63.3	71.0	79.2	82.4	82.4	19.1	7.7
27	60.9	69.7	79.4	81.9	81.9	21.0	8.8
29	62.7	71.0	78.9	82.3	82.3	19.6	8.3
31	63.0	71.5	79.4	82.5	82.5	19.5	8.5
33	61.3	70.1	78.9	82.1	82.1	20.8	8.8
35	64.3	72.8	80.8	83.1	83.1	18.6	8.3
37	69.6	75.4	82.6	84.9	84.9	15.3	5.8
39	66.7	74.3	82.4	84.0	84.0	17.3	7.6
41	67.6	73.8	81.3	83.6	83.6	16.0	6.2
43	68.9	75.0	81.9	84.4	84.4	15.5	6.1
45	71.1	76.3	82.4	85.9	85.9	14.8	5.2
47	69.1	74.2	80.0	84.1	84.1	15.0	5.1
49	69.4	73.9	78.8	83.6	83.6	14.2	4.5
51	71.1	75.6	80.1	84.6	84.6	13.5	4.5
OH 53 → 54	71.8	76.4	81.2	85.4	85.4	13.6	4.6
55	71.5	75.8	80.5	84.3	84.3	12.8	4.3
57	69.8	74.4	79.8	83.5	83.5	13.7	4.6
59	68.1	73.3	81.0	83.1	83.1	15.0	5.2
61	66.7	72.7	82.0	82.9	82.9	16.2	6.0
63	64.5	71.4	81.9	82.3	82.3	17.8	6.9
65	62.6	70.4	81.6	81.8	81.8	19.2	7.8
67	60.9	69.6	81.1	81.4	81.4	20.5	8.7
69	60.0	68.5	78.7	81.2	81.2	21.2	8.5
71	60.3	68.3	80.0	81.1	81.1	20.8	8.0
73	60.8	69.0	80.8	81.2	81.2	20.4	8.2
75	61.0	69.5	81.4	81.5	81.5	20.5	8.5
77	62.5	69.9	79.8	81.8	83.1	19.3	7.4
79	60.6	68.5	77.7	81.4	81.4	20.8	7.9

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 73, 130 MPH FLY BY, MIC. 150 METERS EAST

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DEB	OASPL	PNL	PNLT	PNL-DEA	DEB-DBA
1	53.7	61.9	65.9	76.3	76.3	22.6	8.2
4	57.6	66.4	70.5	80.7	80.7	23.1	8.8
7	58.4	67.3	74.8	80.9	80.9	22.5	8.9
10	58.7	66.9	72.0	80.8	80.8	22.1	8.2
13	57.4	66.1	70.8	80.7	80.7	23.3	8.7
16	58.3	67.3	72.8	80.9	80.9	22.6	9.0
19	58.7	66.9	71.9	80.9	80.9	22.2	8.2
22	58.3	66.8	72.1	80.9	80.9	22.6	8.5
25	62.2	71.2	79.2	82.6	82.6	20.4	9.0
28	63.4	70.6	77.1	82.2	82.2	18.8	7.2
31	58.9	67.8	74.7	81.2	81.2	22.3	8.9
34	58.9	68.0	74.1	81.3	81.3	22.4	9.1
37	62.1	70.1	77.1	82.1	82.1	20.0	8.0
40	63.5	71.3	78.4	82.6	83.8	19.1	7.6
43	63.1	70.5	77.6	82.2	83.4	19.1	7.4
46	66.6	73.2	80.4	83.5	84.5	16.9	6.6
49	67.4	73.0	79.3	83.2	83.2	15.8	5.6
52	70.5	74.8	79.7	84.3	84.3	13.8	4.3
55	72.2	75.6	79.3	85.0	86.6	12.8	3.4
58	72.7	76.9	82.1	85.3	86.4	12.6	4.2
OH → 59	73.3	77.6	82.9	86.4	87.6	13.1	4.3
62	72.8	76.8	81.1	85.5	85.5	12.7	4.0
65	70.0	74.1	76.0	83.2	83.2	13.2	4.1
68	66.1	71.0	73.2	82.0	82.0	15.9	4.9
71	65.6	70.6	78.2	81.8	81.8	16.2	5.0
74	61.9	68.2	72.3	81.0	81.0	19.1	6.3
77	62.9	68.5	71.7	81.2	81.2	18.3	5.6
80	64.5	68.9	70.3	81.4	82.4	16.9	4.4
83	61.1	67.7	72.2	81.0	81.0	19.9	6.6
86	58.2	66.2	68.2	80.7	80.7	22.5	8.0

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 46, 6 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	GASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.9	68.7	80.7	77.2	77.2	15.3	6.8
3	63.3	69.2	79.5	78.0	78.0	14.7	5.9
5	63.3	69.5	79.8	77.8	77.8	14.5	6.2
7	64.9	70.6	79.5	79.1	79.1	14.2	5.7
9	72.3	75.7	81.0	83.2	84.9	10.9	3.4
11	73.8	77.7	82.1	84.6	86.4	10.8	3.9
13	75.0	79.4	83.5	85.9	85.9	10.9	4.4
15	75.5	79.2	83.4	87.1	87.1	11.6	3.7
17	73.6	77.6	82.4	85.8	85.8	12.2	4.0
19	69.9	74.9	81.2	82.6	82.6	12.7	5.0
21	69.9	75.1	81.1	82.8	82.8	12.9	5.2
23	72.2	77.0	81.7	84.4	84.4	12.2	4.8
25	73.9	78.3	81.8	85.5	85.5	11.6	4.4
27	75.5	80.1	82.6	86.7	86.7	11.2	4.6
OH → 29	76.4	80.9	83.5	87.9	87.9	11.5	4.5
31	75.0	79.7	82.8	87.2	87.2	12.2	4.7
33	74.4	78.7	82.1	86.5	86.5	12.1	4.3
35	73.3	77.1	81.5	84.3	84.3	11.0	3.8
37	72.3	76.7	82.2	83.8	83.8	11.5	4.4
39	71.6	76.2	82.0	83.6	83.6	12.0	4.6
41	70.6	75.1	80.7	82.5	82.5	11.9	4.5
43	70.8	75.6	80.4	83.2	83.2	12.4	4.8
45	70.9	75.9	80.1	83.8	83.8	12.9	5.0
47	69.8	74.7	78.3	82.1	82.1	12.3	4.9
49	69.7	75.0	78.4	82.3	82.3	12.6	5.3
51	69.3	74.0	77.6	81.6	81.6	12.3	4.7
53	68.0	71.9	76.1	80.3	80.3	12.3	3.9
55	68.2	72.3	76.0	80.8	82.6	12.6	4.1
57	68.3	71.5	75.4	80.5	81.8	12.2	3.2
59	68.3	71.8	74.8	80.7	80.7	12.4	3.5
61	68.5	72.0	74.8	80.3	80.3	11.8	3.5
63	65.4	69.4	73.2	78.0	78.0	12.6	4.0
65	62.6	66.6	71.5	75.6	75.6	13.0	4.0
67	60.7	65.0	70.8	74.2	74.2	13.5	4.3
69	57.3	64.1	70.2	73.5	73.5	16.2	6.8

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 54, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	57.7	65.2	75.4	73.9	73.9	16.2	7.5
3	57.4	65.5	75.7	74.0	74.0	16.6	8.1
5	62.0	68.8	78.4	76.6	76.6	14.6	6.8
7	65.2	71.1	80.6	78.9	79.9	13.7	5.9
9	67.5	71.9	79.5	80.5	82.2	13.0	4.4
11	61.5	68.5	77.9	76.9	77.9	15.4	7.0
13	62.6	69.6	79.2	77.9	77.9	15.3	7.0
15	64.8	70.7	79.0	78.9	80.0	14.1	5.9
17	69.1	73.5	79.7	81.5	83.1	12.4	4.4
19	67.9	72.5	80.4	80.2	80.2	12.3	4.6
21	66.3	72.0	81.2	79.3	79.3	13.0	5.7
23	70.5	75.1	83.0	82.9	82.9	12.4	4.6
25	71.2	76.4	84.4	83.7	83.7	12.5	5.2
27	72.9	77.8	84.8	85.3	86.5	12.4	4.9
29	72.2	77.2	84.1	85.0	85.0	12.8	5.0
31	73.7	78.6	84.7	86.1	86.1	12.4	4.9
OH 33 → 34	75.7	80.8	85.3	87.5	87.5	11.8	5.1
35	74.7	80.0	84.9	87.4	87.4	12.7	5.3
37	75.0	80.3	85.6	87.2	87.2	12.2	5.3
39	75.3	80.3	85.7	87.3	87.3	12.0	5.0
41	73.7	78.4	84.4	86.1	86.1	12.4	4.7
43	72.7	77.9	83.2	85.4	85.4	12.7	5.2
45	68.4	73.4	81.7	81.3	81.3	12.9	5.0
47	66.8	71.5	79.7	79.3	79.3	12.5	4.7
49	69.8	73.3	80.1	80.6	80.6	10.8	3.5
51	68.5	72.1	79.7	79.7	79.7	11.2	3.6
53	63.3	68.3	77.7	76.7	76.7	13.4	5.0
55	65.2	68.9	76.4	77.8	77.8	12.6	3.7
57	65.0	68.3	74.8	77.1	78.6	12.1	3.3
59	60.1	65.4	74.1	74.2	74.2	14.1	5.3
61	60.1	65.4	73.7	74.3	74.3	14.2	5.3
63	57.0	64.1	73.4	73.3	73.3	16.3	7.1

TABLE D-IV

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 59, 70 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	59.3	69.5	76.2	81.3	81.3	22.0	10.2
3	60.6	69.8	75.7	81.6	81.6	21.0	9.2
5	65.7	72.4	78.5	82.9	82.9	17.2	6.7
7	69.1	74.2	80.1	83.7	83.7	14.6	5.1
9	65.4	72.1	78.8	82.7	82.7	17.3	6.7
11	62.1	70.6	77.0	81.8	81.8	19.7	8.5
13	64.7	71.1	77.4	82.2	82.2	17.5	6.4
15	65.6	71.9	77.3	82.5	82.5	16.9	6.3
17	63.4	71.0	76.2	81.9	81.9	18.5	7.6
19	63.0	70.9	75.6	81.9	81.9	18.9	7.9
21	63.7	71.3	76.9	82.2	82.2	18.5	7.6
23	66.9	73.0	78.8	83.0	83.0	16.1	6.1
25	68.8	74.2	79.5	84.2	84.2	15.4	5.4
27	71.4	76.0	80.4	85.7	86.8	14.3	4.6
29	70.2	75.5	80.1	84.7	84.7	14.5	5.3
31	71.3	76.7	80.7	85.6	85.6	14.3	5.4
33	68.1	74.3	79.7	83.8	83.8	15.7	6.2
35	69.0	75.1	80.0	84.2	85.3	15.2	6.1
37	70.8	76.4	81.3	85.2	85.2	14.4	5.6
39	71.1	76.6	82.5	85.4	85.4	14.3	5.5
41	73.3	77.8	83.1	86.6	86.6	13.3	4.5
43	74.8	79.7	83.9	88.3	88.3	13.5	4.9
45	71.9	77.6	82.8	86.0	86.0	14.1	5.7
47	76.9	81.6	85.5	90.1	90.1	13.2	4.7
49	78.6	83.0	86.8	91.4	91.4	12.8	4.4
OH → 51	76.0	81.0	85.8	89.3	89.3	13.3	5.0
53	73.2	78.8	84.7	86.9	86.9	13.7	5.6
55	72.9	77.9	84.0	85.8	85.8	12.9	5.0
57	71.3	76.8	83.8	85.6	85.6	14.3	5.5
59	71.2	76.5	83.7	85.6	85.6	14.4	5.3
61	69.5	75.3	81.7	84.2	84.2	14.7	5.8
63	68.7	74.7	80.7	84.1	84.1	15.4	6.0
65	67.5	74.1	79.6	83.3	83.3	15.8	6.6
67	66.6	73.2	79.3	82.9	82.9	16.3	6.6
69	65.9	72.7	79.9	82.6	83.9	16.7	6.8

TABLE D-II

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 60, 70 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	64.3	72.0	77.3	81.8	81.8	17.5	7.7
2	63.9	71.5	75.7	81.8	81.8	17.9	7.6
3	64.4	71.4	76.0	82.0	82.0	17.6	7.0
4	66.8	73.0	77.4	82.7	82.7	15.9	6.2
5	67.5	73.4	78.0	83.1	84.2	15.6	5.9
6	67.0	73.0	77.6	82.7	83.7	15.7	6.0
7	65.5	71.9	76.9	82.2	82.2	16.7	6.4
8	64.6	71.3	76.0	81.9	81.9	17.3	6.7
9	65.4	71.9	76.7	82.0	82.0	16.6	6.5
10	66.0	72.5	77.8	82.2	83.6	16.2	6.5
11	67.6	73.6	79.3	82.7	84.4	15.1	6.0
12	69.2	74.9	80.0	83.4	83.4	14.2	5.7
13	70.0	75.4	80.2	84.2	84.2	14.2	5.4
14	69.9	75.3	80.1	84.4	84.4	14.5	5.4
15	69.4	75.2	79.8	84.1	84.1	14.7	5.8
16	69.0	75.2	79.4	83.7	83.7	14.7	6.2
17	69.7	75.4	79.5	83.9	83.9	14.2	5.7
18	70.0	75.5	80.3	84.3	84.3	14.3	5.5
19	71.9	76.8	81.2	85.4	85.4	13.5	4.9
20	73.3	78.5	82.4	87.3	87.3	14.0	5.2
21	75.4	80.3	83.9	89.2	89.2	13.8	4.9
22	76.2	81.3	84.5	89.8	89.8	13.6	5.1
OH → 23	76.3	81.3	84.3	89.6	89.6	13.3	5.0
24	75.4	80.8	83.3	88.7	88.7	13.3	5.4
25	73.8	79.4	82.2	87.1	87.1	13.3	5.6
26	72.3	78.3	81.4	86.4	86.4	14.1	6.0
27	71.5	77.9	81.2	86.1	86.1	14.6	6.4
28	72.4	78.4	81.1	86.4	86.4	14.0	6.0
29	72.7	78.3	80.9	86.4	86.4	13.7	5.6
30	72.0	77.2	79.5	85.6	85.6	13.6	5.2
31	70.9	75.7	77.8	84.2	84.2	13.3	4.8
32	70.2	74.9	76.8	83.6	83.6	13.4	4.7
33	70.2	74.8	76.9	83.5	83.5	13.3	4.6
34	70.4	75.1	77.7	83.7	83.7	13.3	4.7
35	70.0	74.8	77.8	83.6	83.6	13.6	4.8
36	69.7	74.4	77.9	83.5	83.5	13.8	4.7
37	68.8	73.6	77.1	83.2	83.2	14.4	4.8
38	67.7	72.8	76.4	82.7	82.7	15.0	5.1
39	66.1	72.1	75.7	82.1	82.1	16.0	6.0
40	65.4	71.8	75.8	81.9	81.9	16.5	6.4
41	64.6	71.2	75.4	81.7	81.7	17.1	6.6
42	64.3	71.1	74.8	81.6	81.6	17.3	6.8

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 61, 70 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	60.2	69.9	76.1	81.4	81.4	21.2	9.7
3	59.8	69.8	76.3	81.3	81.3	21.5	10.0
5	60.2	69.8	77.1	81.4	81.4	21.2	9.6
7	70.3	75.1	79.9	84.5	84.5	14.2	4.8
9	70.9	75.5	79.5	84.8	84.8	13.9	4.6
11	64.9	71.3	76.6	82.3	82.3	17.4	6.4
13	60.6	69.7	74.6	81.4	81.4	20.8	9.1
15	62.0	70.4	75.4	81.8	81.8	19.8	8.4
17	64.2	71.6	77.0	82.3	82.3	18.1	7.4
19	66.9	73.2	78.5	82.8	82.8	15.9	6.3
21	69.1	74.6	79.6	84.7	84.7	15.6	5.5
23	70.7	75.3	80.0	85.5	86.5	14.8	4.6
25	67.9	73.9	79.4	83.8	83.8	15.9	6.0
27	73.9	78.4	81.8	87.4	87.4	13.5	4.5
29	76.5	80.9	83.8	89.3	89.3	12.8	4.4
31	76.6	80.5	83.8	89.1	89.1	12.5	3.9
33	77.8	80.9	84.1	89.5	89.5	11.7	3.1
35	77.2	80.6	83.6	89.6	89.6	12.4	3.4
37	75.3	79.5	82.3	88.1	88.1	12.8	4.2
39	72.8	77.0	81.5	86.7	86.7	13.9	4.2
41	75.2	80.3	83.6	88.7	88.7	13.5	5.1
43	74.3	79.8	83.7	87.9	87.9	13.6	5.5
OH → 45	75.8	80.9	84.0	88.9	88.9	13.1	5.1
47	78.3	83.9	86.8	91.4	91.4	13.1	5.6
49	77.9	84.0	86.9	91.4	91.4	13.5	6.1
51	78.8	83.8	86.4	91.9	91.9	13.1	5.0
53	75.3	79.9	83.3	89.0	89.0	13.7	4.6
55	75.4	80.4	83.4	89.0	89.0	13.6	5.0
57	71.2	77.2	81.3	86.2	86.2	15.0	6.0
59	67.4	73.7	79.7	83.3	83.3	15.9	6.3
61	67.3	73.2	79.2	83.0	83.0	15.7	5.9
63	64.7	71.4	76.7	82.1	82.1	17.4	6.7
65	61.9	70.2	75.5	81.4	81.4	19.5	8.3

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 63, 106 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	61.4	70.9	76.2	82.1	82.1	20.7	9.5
2	61.9	71.0	76.4	82.2	82.2	20.3	9.1
3	65.7	72.4	77.4	82.9	84.0	17.2	6.7
4	67.9	73.7	78.8	83.7	85.0	15.8	5.8
5	68.4	74.0	79.5	84.0	85.1	15.6	5.6
6	66.9	73.2	79.4	83.6	84.6	16.7	6.3
7	64.5	72.2	78.9	82.9	82.9	18.4	7.7
8	62.4	71.3	78.3	82.4	82.4	20.0	8.9
9	64.5	71.9	78.7	82.6	83.8	18.1	7.4
10	65.0	72.2	79.0	82.7	83.7	17.7	7.2
11	64.9	72.4	79.2	82.8	82.8	17.9	7.5
12	65.5	73.1	79.9	83.1	83.1	17.6	7.6
13	67.7	74.4	80.7	84.2	84.2	16.5	6.7
14	68.1	74.7	80.9	84.5	84.5	16.4	6.6
15	67.1	74.0	80.4	84.0	84.0	16.9	6.9
16	64.9	72.7	79.7	82.9	82.9	18.0	7.8
17	65.0	72.4	79.4	82.7	82.7	17.7	7.4
18	65.3	72.3	79.4	82.7	82.7	17.4	7.0
19	65.4	72.3	79.4	82.7	82.7	17.3	6.9
20	65.9	72.6	79.9	82.9	82.9	17.0	6.7
21	66.8	73.7	81.1	83.3	83.3	16.5	6.9
22	69.3	75.1	81.8	84.4	85.5	15.1	5.8
23	70.9	76.5	82.5	85.7	85.7	14.8	5.6
24	71.4	76.9	82.4	85.9	85.9	14.5	5.5
25	70.8	76.7	81.9	85.3	85.3	14.5	5.9
26	72.7	78.1	82.2	86.4	86.4	13.7	5.4
27	76.8	81.4	84.0	89.8	89.8	13.0	4.6
28	76.8	81.4	83.8	89.9	89.9	13.1	4.6
29	76.1	80.8	83.2	89.4	89.4	13.3	4.7
30	72.2	78.1	81.7	86.4	86.4	14.2	5.9
OH → 31	72.9	78.7	82.5	86.7	86.7	13.8	5.8
32	72.6	78.7	82.8	86.4	86.4	13.8	6.1
33	73.3	79.1	82.9	87.1	87.1	13.8	5.8
34	71.9	77.6	81.8	85.8	85.8	13.9	5.7
35	70.8	76.2	80.5	84.5	84.5	13.7	5.4
36	68.4	74.0	78.8	83.1	83.1	14.7	5.6
37	68.4	74.2	78.9	83.2	83.2	14.8	5.8
38	69.0	74.7	79.1	83.4	83.4	14.4	5.7
39	68.2	74.2	78.8	83.2	83.2	15.0	6.0
40	66.9	73.3	78.3	82.8	82.8	15.9	6.4
41	63.6	71.5	76.7	81.8	81.8	18.2	7.9
42	63.5	71.2	76.2	81.8	81.8	18.3	7.7
43	64.5	71.8	76.8	82.0	82.0	17.5	7.3

TABLE D-IV

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 65, 106 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	62.6	71.1	76.8	82.0	82.0	19.4	8.5
2	62.5	71.2	77.3	82.1	82.1	19.6	8.7
3	63.8	71.8	78.3	82.5	82.5	18.7	8.0
4	64.7	72.6	79.1	82.9	84.0	18.2	7.9
5	66.2	73.6	80.2	83.4	84.7	17.2	7.4
6	66.3	74.2	80.9	84.0	84.0	17.2	7.4
7	66.5	74.2	81.3	83.9	83.9	17.4	7.7
8	65.6	73.8	81.3	83.6	83.6	18.0	8.2
9	65.5	73.5	81.2	83.4	83.4	17.9	8.0
10	66.7	74.0	81.3	83.6	83.6	16.9	7.3
11	67.6	74.6	81.7	84.0	84.0	16.4	7.0
12	68.1	75.0	82.5	84.5	84.5	16.4	6.9
13	69.5	75.9	83.5	85.8	87.2	16.3	6.4
14	71.0	77.0	84.0	86.7	87.9	15.7	6.0
15	72.4	78.5	84.3	87.8	87.8	15.4	6.1
16	74.5	80.6	85.0	89.1	89.1	14.6	6.1
17	75.1	80.9	85.0	89.1	89.1	14.0	5.8
18	74.7	80.2	84.3	88.3	88.3	13.6	5.5
19	73.8	78.6	83.3	87.5	87.5	13.7	4.8
20	74.2	78.7	83.1	87.9	87.9	13.7	4.5
21	74.7	79.6	83.5	88.1	88.1	13.4	4.9
OH → 22	74.2	79.5	83.3	87.6	87.6	13.4	5.3
23	73.2	79.0	83.2	86.7	86.7	13.5	5.8
24	72.1	77.8	82.5	86.2	86.2	14.1	5.7
25	71.3	76.8	81.9	85.5	85.5	14.2	5.5
26	71.0	76.1	81.4	84.5	84.5	13.5	5.1
27	70.9	76.2	81.9	84.8	84.8	13.9	5.3
28	70.4	75.9	81.6	84.5	84.5	14.1	5.5
29	69.0	75.0	80.8	83.6	83.6	14.6	6.0
30	67.9	74.1	79.0	83.2	83.2	15.3	6.2
31	68.1	74.2	78.1	83.4	83.4	15.3	6.1
32	67.7	74.0	77.7	83.2	83.2	15.5	6.3
33	67.7	73.8	78.4	83.0	83.0	15.3	6.1
34	66.5	72.9	78.0	82.7	82.7	16.2	6.4
35	65.9	72.2	76.8	82.4	83.4	16.5	6.3
36	63.7	71.0	74.6	81.8	81.8	18.1	7.3
37	62.1	70.3	73.7	81.5	81.5	19.4	8.2
38	60.6	69.8	73.3	81.3	81.3	20.7	9.2

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 66, 106 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	60.5	70.4	75.6	81.7	81.7	21.2	9.9
2	61.3	70.7	76.6	82.0	82.0	20.7	9.4
3	62.0	71.2	77.1	82.2	82.2	20.2	9.2
4	63.0	71.5	77.6	82.5	82.5	19.5	8.5
5	65.2	72.8	78.8	83.0	84.1	17.8	7.6
6	65.9	73.3	79.6	83.3	84.7	17.4	7.4
7	66.3	73.8	80.7	83.6	85.1	17.3	7.5
8	65.7	73.8	81.0	83.7	85.3	18.0	8.1
9	66.8	74.5	81.7	84.1	85.6	17.3	7.7
10	67.4	74.6	81.5	84.2	85.3	16.8	7.2
11	68.7	75.0	81.6	84.7	84.7	16.0	6.3
12	68.8	74.9	81.4	84.8	84.8	16.0	6.1
13	68.5	74.8	81.7	84.7	84.7	16.2	6.3
14	67.3	74.2	81.7	83.9	83.9	16.6	6.9
15	66.7	73.8	81.5	83.4	83.4	16.7	7.1
16	67.1	73.9	81.4	83.5	84.8	16.4	6.8
17	68.3	74.2	81.1	84.1	85.1	15.8	5.9
18	68.3	74.4	80.8	84.2	84.2	15.9	6.1
19	68.1	74.2	80.3	83.9	83.9	15.8	6.1
20	69.3	75.2	80.3	84.2	84.2	14.9	5.9
21	70.6	76.2	80.0	85.1	85.1	14.5	5.6
22	71.1	76.6	79.8	85.7	85.7	14.6	5.5
23	71.4	77.3	80.1	86.2	86.2	14.8	5.9
24	72.3	78.2	81.2	86.8	86.8	14.5	5.9
OH → 25	73.4	79.4	82.5	87.7	87.7	14.3	6.0
26	73.4	79.5	82.9	87.2	87.2	13.8	6.1
27	72.7	78.7	82.4	86.7	86.7	14.0	6.0
28	71.4	77.0	81.2	85.4	85.4	14.0	5.6
29	70.6	75.9	80.2	83.9	83.9	13.3	5.3
30	70.3	75.4	79.7	83.9	83.9	13.6	5.1
31	70.0	75.2	79.5	84.1	84.1	14.1	5.2
32	70.1	75.4	80.0	84.2	84.2	14.1	5.3
33	72.7	77.8	82.5	86.6	86.6	13.9	5.1
34	72.3	77.6	82.2	86.5	86.5	14.2	5.3
35	71.2	76.6	81.1	85.7	85.7	14.5	5.4
36	67.8	73.8	77.7	83.4	83.4	15.6	6.0
37	67.3	73.1	76.8	82.9	82.9	15.6	5.8
38	66.2	72.5	75.7	82.5	82.5	16.3	6.3
39	63.2	70.6	72.4	81.5	81.5	18.3	7.4
40	62.5	70.2	72.4	81.3	81.3	18.8	7.7
41	63.0	70.2	73.7	81.4	81.4	18.4	7.2
42	62.8	70.1	73.9	81.4	81.4	18.6	7.3

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 67, 118 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
1	64.1	72.1	79.9	82.6	82.6	18.5	8.0
2	66.6	73.6	81.6	83.4	83.4	16.8	7.0
3	71.1	76.4	82.5	85.1	85.1	14.0	5.3
4	72.2	77.1	83.3	86.1	86.1	13.9	4.9
5	71.8	76.5	82.8	85.9	85.9	14.1	4.7
6	68.6	74.7	83.3	84.6	84.6	16.0	6.1
7	65.6	74.2	84.6	83.6	83.6	18.0	8.6
8	65.7	74.9	85.3	84.0	84.0	18.3	9.2
9	68.7	76.2	85.5	85.4	85.4	16.7	7.5
10	70.8	77.3	85.3	86.6	86.6	15.8	6.5
11	72.1	78.2	85.8	87.5	87.5	15.4	6.1
12	73.6	79.2	85.8	88.0	89.3	14.4	5.6
13	72.9	78.7	85.2	87.6	89.1	14.7	5.8
14	71.8	77.6	84.6	86.8	88.4	15.0	5.8
15	69.8	76.6	83.9	85.9	85.9	16.1	6.8
16	71.2	77.3	83.9	86.3	86.3	15.1	6.1
17	73.2	78.9	84.0	87.3	87.3	14.1	5.7
18	74.9	80.4	84.9	88.8	88.8	13.9	5.5
19	81.5	86.2	89.4	93.9	93.9	12.4	4.7
20	82.2	86.9	90.2	95.0	95.0	12.8	4.7
21	81.6	86.3	89.6	94.5	94.5	12.9	4.7
OH → 22	76.9	82.2	85.8	91.1	91.1	14.2	5.3
23	73.6	79.1	83.4	87.3	87.3	13.7	5.5
24	72.9	78.6	83.5	86.8	86.8	13.9	5.7
25	71.4	76.9	83.4	85.5	85.5	14.1	5.5
26	70.9	76.1	82.5	85.1	85.1	14.2	5.2
27	70.3	75.6	82.4	84.7	84.7	14.4	5.3
28	69.0	75.1	83.9	84.0	84.0	15.0	6.1

TABLE D-V
NOISE LEVEL TIME HISTORY DATA
BELL 206 L

OCTOBER 14 1976

EVENT 68, 118 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
3	57.7	71.0	72.4	80.8	80.8	23.1	13.3
5	58.1	71.0	73.8	80.8	80.8	22.7	12.9
7	57.7	70.9	73.9	80.8	80.8	23.1	13.2
9	58.8	71.6	74.8	81.4	81.4	22.6	12.8
11	58.9	71.6	76.7	81.4	81.4	22.5	12.7
13	58.3	71.3	74.3	81.1	81.1	22.8	13.0
15	58.4	71.5	74.2	81.1	81.1	22.7	13.1
17	60.5	72.1	76.6	81.9	81.9	21.4	11.6
19	60.5	72.3	78.0	82.1	82.1	21.6	11.8
21	62.6	73.4	78.9	82.6	82.6	20.0	10.8
23	64.6	72.9	77.8	82.6	82.6	18.0	8.3
25	62.6	73.2	81.2	82.5	82.5	19.9	10.6
27	66.3	75.6	82.7	83.9	83.9	17.6	9.3
29	65.7	75.0	82.6	83.8	83.8	18.1	9.3
31	63.3	73.5	81.0	82.8	82.8	19.5	10.2
33	63.4	73.9	81.1	82.9	82.9	19.5	10.5
35	65.1	74.0	81.0	83.3	83.3	18.2	8.9
37	70.3	76.6	83.0	86.1	86.1	15.8	6.3
38	72.3	77.9	83.6	87.5	88.8	15.2	5.6
40	71.5	77.4	82.6	86.5	87.8	15.0	5.9
42	71.4	77.2	82.1	86.0	87.1	14.6	5.8
44	71.6	77.5	82.4	86.5	86.5	14.9	5.9
46	71.7	78.1	82.0	86.2	86.2	14.5	6.4
48	72.7	79.1	82.9	87.4	87.4	14.7	6.4
OH 50 → 51	72.2	78.6	82.4	86.9	86.9	14.7	6.4
52	71.0	77.5	81.8	85.5	85.5	14.5	6.5
54	69.5	75.8	80.7	83.7	83.7	14.2	6.3
56	68.8	75.3	81.2	83.9	83.9	15.1	6.5
58	66.8	74.2	79.8	83.1	83.1	16.3	7.4
60	66.2	74.1	78.1	82.6	82.6	16.4	7.9
62	66.5	74.1	79.1	82.8	82.8	16.3	7.6
64	64.9	73.2	77.0	82.2	82.2	17.3	8.3
66	64.2	72.6	73.9	81.7	81.7	17.5	8.4
68	62.7	71.9	72.2	81.3	81.3	18.6	9.2
70	60.0	71.3	71.4	80.9	80.9	20.9	11.3
72	59.6	71.1	71.0	80.7	80.7	21.1	11.5
74	57.8	70.8	69.8	80.7	80.7	22.9	13.0

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 69, 118 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
7	58.4	70.7	70.4	80.7	80.7	22.3	12.3
9	58.4	70.7	70.5	80.7	80.7	22.3	12.3
11	57.0	70.6	69.4	80.7	80.7	23.7	13.6
13	59.2	71.9	73.3	81.5	81.5	22.3	12.7
15	60.9	72.5	74.8	81.9	81.9	21.0	11.6
17	59.1	71.3	72.3	81.4	81.4	22.3	12.2
19	58.8	71.0	72.2	81.2	81.2	22.4	12.2
21	58.4	71.4	72.6	81.3	81.3	22.9	13.0
23	58.6	71.4	73.4	81.4	81.4	22.8	12.8
25	59.8	72.0	74.2	81.7	81.7	21.9	12.2
27	59.4	72.0	74.8	81.6	81.6	22.2	12.6
29	58.8	71.5	73.0	81.3	81.3	22.5	12.7
31	59.1	71.5	73.7	81.4	81.4	22.3	12.4
33	60.9	72.6	76.4	81.9	81.9	21.0	11.7
35	61.6	72.9	78.9	82.4	82.4	20.8	11.3
37	62.5	72.9	78.8	82.4	82.4	19.9	10.4
39	63.3	73.1	78.6	82.4	82.4	19.1	9.8
41	63.8	73.5	80.1	82.8	82.8	19.0	9.7
43	65.8	74.5	81.0	83.3	83.3	17.5	8.7
45	67.2	75.1	82.2	84.0	84.0	16.8	7.9
47	68.9	76.4	82.8	85.1	85.1	16.2	7.5
49	69.0	75.9	81.4	84.7	86.4	15.7	6.9
51	66.8	74.6	80.4	83.5	83.5	16.7	7.8
53	74.4	79.9	82.6	87.8	87.8	13.4	5.5
55	77.2	83.0	84.9	90.5	90.5	13.3	5.8
OH→56	77.2	83.2	85.2	90.5	90.5	13.3	6.0
58	74.5	80.5	83.7	88.0	88.0	13.5	6.0
60	69.5	76.4	80.4	84.5	84.5	15.0	6.9
62	67.0	73.9	75.9	82.5	82.5	15.5	6.9
64	67.6	74.6	76.8	82.9	82.9	15.3	7.0
66	65.3	73.4	75.0	82.2	82.2	16.9	8.1
68	64.0	72.7	72.5	81.7	81.7	17.7	8.7
70	62.6	72.1	70.9	81.3	81.3	18.7	9.5
72	62.6	71.8	70.6	81.3	81.3	18.7	9.2
74	59.1	70.8	69.0	80.9	80.9	21.8	11.7
76	58.2	71.0	68.7	80.7	80.7	22.5	12.8
78	58.3	71.0	69.0	80.8	80.8	22.5	12.7
80	57.9	70.7	67.8	80.7	80.7	22.8	12.8
82	57.7	70.9	67.0	80.7	80.7	23.0	13.2
84	58.1	71.1	67.9	80.7	80.7	22.6	13.0

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 70, 118 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
4	59.0	71.3	76.4	81.4	81.4	22.4	12.3
7	59.7	72.0	79.0	81.4	81.4	21.7	12.3
10	58.9	71.5	75.0	81.3	81.3	22.4	12.6
13	58.0	71.5	75.0	81.2	81.2	23.2	13.5
16	59.0	71.8	76.6	81.5	81.5	22.5	12.8
19	60.0	71.8	76.3	81.6	81.6	21.6	11.8
22	60.4	72.3	79.3	82.0	82.0	21.6	11.9
25	59.2	71.5	76.3	81.6	81.6	22.4	12.3
28	59.1	71.7	76.0	81.6	81.6	22.5	12.6
31	63.3	73.5	80.6	82.7	82.7	19.4	10.2
34	63.0	73.3	80.0	82.7	82.7	19.7	10.3
37	62.6	72.9	77.9	82.1	82.1	19.5	10.3
40	64.8	73.1	78.2	82.5	82.5	17.7	8.3
43	61.4	72.7	78.8	82.1	82.1	20.7	11.3
46	65.2	73.6	79.9	82.7	82.7	17.5	8.4
49	66.9	74.4	81.2	83.2	84.9	16.3	7.5
52	70.0	76.6	81.1	84.9	84.9	14.9	6.6
55	74.8	80.1	83.0	88.3	88.3	13.5	5.3
OH → 57	75.9	81.5	83.8	88.9	88.9	13.0	5.6
60	71.9	78.0	81.4	85.8	85.8	13.9	6.1
63	70.1	75.8	78.7	84.0	84.0	13.9	5.7
66	66.1	74.1	79.1	82.8	82.8	16.7	8.0
69	64.6	73.1	75.5	82.0	82.0	17.4	8.5
72	64.4	72.4	73.9	81.9	81.9	17.5	8.0
75	60.0	71.0	72.1	80.9	80.9	20.9	11.0
78	59.0	71.0	72.2	80.8	80.8	21.8	12.0
81	60.5	71.1	71.2	81.1	81.1	20.6	10.6
84	57.9	70.8	71.8	80.8	80.8	22.9	12.9

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 71, 130 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
3	57.1	71.1	75.5	80.9	80.9	23.8	14.0
5	57.0	70.8	74.6	80.9	80.9	23.9	13.8
7	57.2	70.8	75.0	80.9	80.9	23.7	13.6
9	57.2	70.8	75.9	80.9	80.9	23.7	13.6
11	57.3	71.6	83.1	81.2	81.2	23.9	14.3
13	56.7	71.1	74.8	80.8	80.8	24.1	14.4
15	57.2	71.1	75.2	80.8	80.8	23.6	13.9
17	57.8	71.2	76.0	81.1	81.1	23.3	13.4
19	58.8	71.5	75.2	81.4	81.4	22.6	12.7
21	64.2	74.2	78.8	83.0	83.0	18.8	10.0
23	66.2	75.8	80.8	83.9	83.9	17.7	9.6
25	63.0	73.7	78.5	82.7	82.7	19.7	10.7
27	59.1	71.7	74.5	81.4	81.4	22.3	12.6
29	60.9	72.5	76.5	82.0	82.0	21.1	11.6
31	62.9	73.8	79.9	82.7	82.7	19.8	10.9
33	61.8	73.2	79.4	82.6	82.6	20.8	11.4
35	65.7	75.6	81.8	84.3	84.3	18.6	9.9
37	70.0	78.0	84.2	86.7	86.7	16.7	8.0
39	70.3	77.4	83.9	86.4	86.4	16.1	7.1
41	69.9	77.1	83.6	85.9	85.9	16.0	7.2
43	68.0	76.0	82.8	85.1	85.1	17.1	8.0
45	71.6	77.6	82.7	86.7	87.7	15.1	6.0
47	72.8	78.4	83.7	87.3	89.1	14.5	5.6
49	74.2	79.9	84.4	88.3	88.3	14.1	5.7
51	74.0	79.1	83.5	87.6	87.6	13.6	5.1
53	73.8	78.8	82.7	87.4	87.4	13.6	5.0
55	74.1	79.3	82.7	87.7	87.7	13.6	5.2
OH 57 → 58	74.7	80.3	82.7	88.5	88.5	13.8	5.6
59	74.3	79.8	82.7	87.7	87.7	13.4	5.5
61	70.7	76.4	80.4	84.4	84.4	13.7	5.7
63	68.1	74.4	76.8	83.0	83.0	14.9	6.3
65	67.2	74.2	75.8	82.8	82.8	15.6	7.0
67	66.9	73.6	75.7	82.5	82.5	15.6	6.7
69	67.0	74.0	76.4	82.5	82.5	15.5	7.0
71	65.9	73.3	74.9	82.1	83.7	16.2	7.4
73	65.1	72.5	72.8	81.6	81.6	16.5	7.4
75	62.5	71.7	70.9	81.1	81.1	18.6	9.2

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 72, 130 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
3	57.7	71.0	70.4	80.7	80.7	23.0	13.3
5	58.8	71.5	74.7	80.9	80.9	22.1	12.7
7	58.3	70.8	74.3	80.8	80.8	22.5	12.5
9	57.8	71.1	71.2	80.8	80.8	23.0	13.3
11	58.1	71.3	72.8	80.8	80.8	22.7	13.2
13	57.6	70.9	71.7	80.7	80.7	23.1	13.3
15	60.4	71.3	74.9	81.1	81.1	20.7	10.9
17	61.0	71.5	75.5	81.3	81.3	20.3	10.5
19	59.5	71.4	74.0	81.1	81.1	21.6	11.9
21	61.1	72.2	76.2	81.8	81.8	20.7	11.1
23	62.9	72.9	77.9	82.5	82.5	19.6	10.0
25	59.6	71.6	75.7	81.7	81.7	22.1	12.0
27	58.7	71.2	75.7	81.4	81.4	22.7	12.5
29	60.0	71.8	77.2	81.6	81.6	21.6	11.8
31	65.4	73.9	80.0	82.7	82.7	17.3	8.5
33	65.3	74.4	81.1	83.3	83.3	18.0	9.1
35	67.3	76.2	82.8	85.2	85.2	17.9	8.9
37	70.4	77.5	82.6	86.3	88.1	15.9	7.1
38	70.9	77.2	81.8	86.4	88.1	15.5	6.3
40	68.8	75.4	81.1	84.9	86.2	16.1	6.6
42	69.7	75.9	81.7	84.8	84.8	15.1	6.2
44	72.6	77.8	82.7	86.8	86.8	14.2	5.2
46	70.7	77.2	83.5	86.2	86.2	15.5	6.5
48	73.5	78.4	83.2	87.1	87.1	13.6	4.9
50	74.2	79.2	83.5	87.6	87.6	13.4	5.0
52	74.3	79.6	83.1	88.1	88.1	13.8	5.3
OH → 54	73.8	79.6	83.0	87.8	87.8	14.0	5.8
56	72.8	79.0	83.3	86.9	86.9	14.1	6.2
58	71.2	77.5	82.2	85.5	85.5	14.3	6.3
60	69.8	76.4	81.1	84.8	84.8	15.0	6.6
62	66.8	74.3	78.0	83.0	83.0	16.2	7.5
64	66.1	73.7	76.7	82.5	82.5	16.4	7.6
66	65.0	72.9	76.4	82.1	82.1	17.1	7.9
68	64.1	72.4	75.7	81.9	81.9	17.8	8.3
70	61.8	71.2	73.6	81.2	81.2	19.4	9.4
72	59.6	71.3	70.8	80.9	80.9	21.3	11.7
74	58.7	70.9	69.9	80.8	80.8	22.1	12.2
76	58.9	71.0	69.4	80.7	80.7	21.8	12.1

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 73, 130 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
4	56.9	70.8	67.2	80.7	80.7	23.8	13.9
7	57.4	70.9	71.6	80.8	80.8	23.4	13.5
10	56.6	70.7	68.8	80.7	80.7	24.1	14.1
13	57.7	70.6	71.1	80.7	80.7	23.0	12.9
16	58.5	71.3	73.4	80.9	80.9	22.4	12.8
19	57.4	70.9	71.3	80.8	80.8	23.4	13.5
22	58.3	71.1	73.1	81.2	81.2	22.9	12.8
25	60.3	72.3	74.5	81.7	81.7	21.4	12.0
28	62.7	73.2	76.7	82.3	82.3	19.6	10.5
31	64.2	74.5	79.3	83.2	83.2	19.0	10.3
34	63.1	73.1	77.3	82.6	82.6	19.5	10.0
37	62.4	72.5	75.4	82.0	82.0	19.6	10.1
40	68.5	76.5	81.3	84.7	84.7	16.2	8.0
43	67.5	75.7	81.5	84.8	84.8	17.3	8.2
46	66.6	75.5	81.9	84.3	84.3	17.7	8.9
49	70.4	76.9	82.6	85.9	87.1	15.5	6.5
52	70.5	77.0	82.5	85.8	86.9	15.3	6.5
55	73.1	78.4	81.3	87.0	87.0	13.9	5.3
OH → 58	76.3	81.8	83.8	89.6	89.6	13.3	5.5
61	72.6	78.7	81.4	86.4	86.4	13.8	6.1
64	69.2	75.2	75.9	83.4	83.4	14.2	6.0
67	67.8	74.6	76.1	83.1	83.1	15.3	6.8
70	66.7	73.8	76.4	82.2	82.2	15.5	7.1
73	64.6	72.5	73.4	81.8	81.8	17.2	7.9
76	63.5	71.7	72.2	81.3	81.3	17.8	8.2
79	62.5	71.8	75.1	81.4	81.4	18.9	9.3
82	58.9	70.4	71.8	80.8	80.8	21.9	11.5
85	59.4	71.1	74.0	81.0	81.0	21.6	11.7

TABLE D-V

NOISE LEVEL TIME HISTORY DATA

BELL 206 L

OCTOBER 14 1976

EVENT 74, 145 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
3	56.9	70.7	68.7	80.7	80.7	23.8	13.8
5	57.1	70.9	70.2	80.7	80.7	23.6	13.8
7	57.1	70.8	69.6	80.8	80.8	23.7	13.7
9	57.8	70.9	70.1	80.8	80.8	23.0	13.1
11	58.0	71.0	70.3	80.9	80.9	22.9	13.0
13	56.8	70.8	70.2	80.8	80.8	24.0	14.0
15	58.2	71.4	73.7	81.3	81.3	23.1	13.2
17	62.6	73.6	77.8	82.7	82.7	20.1	11.0
19	63.2	73.9	77.8	82.7	82.7	19.5	10.7
21	60.2	72.0	74.4	81.6	81.6	21.4	11.8
23	60.1	71.7	75.0	81.6	81.6	21.5	11.6
25	63.8	74.5	80.9	83.4	83.4	19.6	10.7
27	67.7	77.5	84.1	86.3	86.3	18.6	9.8
29	68.8	78.1	84.9	87.1	87.1	18.3	9.3
31	67.1	76.4	83.4	85.4	85.4	18.3	9.3
33	66.8	75.8	80.9	84.1	84.1	17.3	9.0
35	66.2	75.1	80.1	83.7	83.7	17.5	8.9
37	65.8	75.5	81.8	84.0	84.0	18.2	9.7
39	73.3	80.5	86.4	89.0	89.0	15.7	7.2
41	71.6	78.7	85.2	87.9	87.9	16.3	7.1
43	68.0	75.8	82.4	84.6	84.6	16.6	7.8
45	69.8	76.9	83.2	85.5	86.6	15.7	7.1
47	71.2	77.7	83.9	86.7	86.7	15.5	6.5
49	74.1	79.6	83.5	87.8	87.8	13.7	5.5
51	76.1	81.8	84.8	89.7	89.7	13.6	5.7
OH 53 → 52	75.6	81.8	85.1	89.0	89.0	13.4	6.2
55	73.0	78.8	83.1	86.2	86.2	13.2	5.8
57	71.4	76.9	83.0	85.2	85.2	13.8	5.5
59	70.9	76.7	81.5	84.5	84.5	13.6	5.8
61	68.7	75.0	76.2	83.3	83.3	14.6	6.3
63	64.7	72.9	73.3	81.8	81.8	17.1	8.2
65	63.7	72.4	72.0	81.6	81.6	17.9	8.7
67	59.9	71.1	69.1	80.8	80.8	20.9	11.2
69	61.1	71.3	69.4	81.0	81.0	19.9	10.2
71	59.7	71.1	69.1	80.9	80.9	21.2	11.4
73	58.0	70.8	69.5	80.7	80.7	22.7	12.8
75	58.5	71.2	69.5	80.7	80.7	22.2	12.7
77	58.2	71.0	69.9	80.7	80.7	22.5	12.8
79	57.5	70.8	69.2	80.7	80.7	23.2	13.3

TABLE D-V
NOISE LEVEL TIME HISTORY DATA
BELL 206 L

OCTOBER 14 1976

EVENT 76, 145 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/2 SECOND INTEGRATION VS NOISE INDEXES
(DB RE 20 MICRO PA)

INT	DBA	DBD	OASPL	PNL	PNLT	PNL-DBA	DBD-DBA
3	63.4	73.2	79.3	82.6	82.6	19.2	9.8
5	68.0	75.8	81.7	84.8	84.8	16.8	7.8
7	70.4	77.2	82.9	86.0	86.0	15.6	6.8
9	72.8	79.2	85.0	87.8	87.8	15.0	6.4
11	74.9	80.7	86.2	89.6	91.3	14.7	5.8
13	73.4	79.5	85.0	88.3	89.7	14.9	6.1
15	71.8	78.3	84.1	87.0	88.7	15.2	6.5
17	72.1	78.5	83.3	87.1	87.1	15.0	6.4
19	73.3	78.8	82.6	87.5	87.5	14.2	5.5
21	76.4	81.2	84.0	89.3	89.3	12.9	4.8
OH → 23	75.8	80.8	83.6	88.4	88.4	12.6	5.0
25	72.4	77.9	80.7	85.7	85.7	13.3	5.5
27	70.7	76.3	80.0	84.5	84.5	13.8	5.6
29	68.9	75.2	79.3	83.3	83.3	14.4	6.3
31	66.7	74.5	80.6	83.0	83.0	16.3	7.8
33	65.8	74.1	81.5	83.0	83.0	17.2	8.3
35	66.5	74.7	83.9	83.4	83.4	16.9	8.2
37	65.1	74.6	85.2	83.0	83.0	17.9	9.5
39	62.7	73.8	83.8	82.4	82.4	19.7	11.1
41	61.4	72.5	80.3	81.8	81.8	20.4	11.1
43	61.6	72.9	81.5	81.9	81.9	20.3	11.3
45	59.7	71.6	78.4	81.2	81.2	21.5	11.9
47	58.9	71.6	77.8	81.1	81.1	22.2	12.7
49	58.6	71.3	77.4	81.1	81.1	22.5	12.7

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 71, 130 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-28.0	-22.5	-17.0	-11.5	-6.0	-.5	0	5.0	10.5	12.0
17	60.9	64.7	63.3	69.7	76.0	71.5	70.8	65.8	63.7	.0
18	63.4	62.4	67.8	71.7	76.9	75.9	72.1	67.0	64.2	.0
19	60.2	62.4	67.1	68.7	75.1	70.4	66.9	65.7	61.2	.0
20	59.7	60.4	65.1	71.2	75.3	64.9	63.1	61.3	60.7	.0
21	56.9	56.6	67.5	66.6	71.3	61.0	61.2	57.8	58.4	.0
22	52.7	55.0	63.0	66.2	66.9	64.7	69.4	55.0	57.6	.0
23	50.7	55.0	60.4	65.8	63.4	69.4	71.2	58.2	57.8	.0
24	50.9	55.0	57.3	59.2	56.0	73.1	72.7	63.3	55.6	.0
25	50.4	55.0	55.0	56.3	62.4	70.6	68.3	65.0	55.0	.0
26	50.4	55.0	55.0	56.8	69.6	67.7	67.5	59.5	55.0	.0
27	50.4	55.0	55.0	55.0	73.8	71.7	70.7	59.1	55.0	.0
28	50.4	55.0	55.0	55.0	71.8	66.5	65.6	63.8	55.5	.0
29	50.4	55.0	55.0	55.0	61.2	65.9	65.8	60.0	55.0	.0
30	50.4	55.0	55.0	55.0	58.6	64.4	64.8	59.7	55.0	.0
31	50.4	55.0	55.0	55.0	55.1	62.4	62.7	57.3	55.0	.0
32	50.4	55.0	55.0	55.0	55.0	59.5	59.8	55.2	55.0	.0
33	50.4	55.0	55.0	55.0	55.0	57.9	58.4	55.0	55.0	.0
34	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
35	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
36	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
37	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
38	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
39	50.4	55.0	55.0	55.1	55.0	55.0	55.0	55.0	55.0	.0
40	52.2	56.4	57.6	57.9	57.2	57.5	57.8	57.9	57.8	.0
A	55.9	59.0	62.0	63.8	73.9	75.2	74.7	67.8	61.3	.0
D	65.9	70.1	71.7	73.0	79.3	79.5	79.3	73.2	70.7	5.0
OASPL	70.9	76.6	75.7	79.0	83.8	83.7	82.6	76.0	73.7	.0
PNL	76.7	80.9	81.9	82.8	87.9	87.6	87.2	82.7	81.2	.0
PNLT	76.7	80.9	81.9	82.8	89.2	87.6	87.2	84.1	81.2	.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 72, 130 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-28.0	-22.5	-17.0	-11.5	-6.0	-0.5	0	5.0	10.5	12.0
17	60.3	66.6	68.4	72.6	76.5	73.0	70.7	67.9	65.1	64.8
18	62.2	65.0	67.2	73.0	78.4	74.8	71.3	69.4	66.1	65.1
19	60.8	63.9	66.5	72.4	75.8	70.6	69.0	67.5	64.8	61.9
20	58.8	61.7	66.5	72.0	75.7	64.6	64.2	64.3	60.9	59.9
21	56.2	58.0	64.4	65.9	71.9	59.9	61.1	58.9	59.3	57.6
22	56.6	56.9	60.2	63.3	68.7	65.9	67.0	58.6	57.4	55.7
23	55.7	55.5	57.0	61.7	63.5	71.3	71.1	62.4	55.5	55.0
24	55.7	55.0	55.4	57.6	57.7	72.7	71.8	65.9	55.1	55.0
25	54.6	55.0	55.7	57.6	64.6	70.6	68.4	65.3	55.0	55.0
26	53.6	55.0	55.0	58.9	70.4	70.7	69.3	58.7	55.6	55.0
27	54.4	55.0	55.0	62.5	70.7	73.4	70.7	63.3	59.2	56.0
28	53.7	55.0	55.8	60.2	65.1	69.0	67.7	61.6	56.2	56.1
29	54.0	55.0	55.0	55.1	64.5	67.4	65.9	62.7	55.0	55.0
30	54.4	55.0	55.0	55.2	61.9	64.9	63.2	60.7	55.0	55.0
31	53.5	55.0	55.0	55.0	56.7	62.1	61.0	58.1	55.0	55.0
32	53.5	55.0	55.0	55.0	55.0	58.9	58.9	55.8	55.0	55.0
33	53.5	55.0	55.0	55.0	55.0	56.6	57.0	55.1	55.0	55.0
34	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
35	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	53.5	55.0	55.0	55.1	55.0	55.0	55.0	55.0	55.0	55.0
40	56.1	56.5	57.8	57.5	57.5	57.8	57.8	57.5	57.6	57.5
A	63.8	59.8	61.9	65.7	73.5	76.1	74.7	69.1	62.2	61.1
D	69.5	70.4	71.2	73.6	78.5	80.1	79.1	74.3	71.1	70.4
OASPL	72.8	77.5	77.7	81.1	84.6	83.8	82.5	78.6	76.1	74.5
PNL	79.7	81.1	81.8	83.2	87.1	88.5	87.1	83.3	81.4	81.1
PNLT	79.7	81.1	81.8	83.2	87.1	88.5	87.1	83.3	81.4	81.1

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 73, 130 MPH FLY BY, MIC. 150 METERS WEST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-28.5	-22.5	-16.5	-10.5	-4.5	0	1.5	7.5	13.5	15.0
17	58.2	60.4	64.8	69.3	74.8	70.9	68.2	60.0	53.6	56.9
18	57.4	62.2	66.2	70.2	77.0	74.1	64.8	61.5	59.2	57.5
19	56.9	58.8	64.8	68.3	74.9	68.9	63.4	61.6	60.2	57.6
20	52.9	59.6	62.0	69.6	74.3	65.1	59.3	56.4	56.8	56.8
21	50.7	55.5	59.9	64.5	70.6	57.0	59.7	56.2	56.1	55.4
22	50.4	55.1	57.0	64.2	67.4	59.4	72.1	55.0	55.3	55.0
23	50.4	56.3	57.1	62.6	65.0	65.0	69.6	55.0	56.7	56.9
24	50.4	55.3	55.1	57.0	55.4	71.5	74.6	56.2	57.6	57.1
25	50.4	55.1	55.0	57.8	57.4	67.9	64.1	58.3	55.0	55.0
26	50.4	55.0	55.0	56.1	60.4	67.2	67.7	59.0	55.0	55.0
27	50.4	55.0	55.0	57.2	63.1	69.1	66.6	58.0	55.0	55.0
28	50.4	55.0	55.0	57.1	57.8	64.9	68.3	56.6	55.0	55.0
29	50.4	55.0	55.0	55.9	55.0	65.1	66.4	57.5	55.2	55.0
30	50.4	55.0	55.0	55.3	55.0	63.8	64.7	55.4	55.0	55.0
31	50.4	55.0	55.0	55.0	55.0	62.5	63.5	55.0	55.0	55.0
32	50.4	55.0	55.0	55.0	55.0	59.6	60.4	55.0	55.0	55.0
33	50.4	55.0	55.0	55.0	55.0	58.6	58.5	55.0	55.0	55.0
34	50.4	55.0	55.0	55.0	55.0	55.5	55.5	55.0	55.0	55.0
35	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	50.4	55.0	55.0	55.0	55.0	55.2	55.0	55.0	55.1	55.0
40	52.4	57.6	57.7	57.7	57.9	57.7	57.8	57.6	57.6	57.9
A	55.2	60.5	60.1	63.6	66.2	73.3	74.4	63.8	60.9	60.2
D	65.4	70.4	70.2	72.2	75.2	78.2	79.0	71.3	70.3	70.4
OASPL	66.9	71.8	73.4	77.1	82.6	83.4	81.8	70.9	69.3	68.5
PNL	76.3	80.9	81.3	82.5	84.0	86.2	87.4	81.3	80.9	80.9
PNLT	76.3	80.9	81.3	82.5	84.0	86.2	87.4	81.3	80.9	80.9

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 71, 130 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-28.0	-23.0	-18.0	-13.0	-8.0	-6.0	-3.0	0	2.0	7.0	9.0
17	54.3	60.0	66.2	65.7	74.4	75.9	70.1	66.8	65.1	62.9	59.2
18	55.4	60.9	64.2	66.8	72.5	76.6	71.8	65.1	64.5	63.6	59.5
19	57.0	56.2	64.0	67.7	75.2	76.8	69.8	64.6	65.3	59.5	57.0
20	55.0	55.7	64.4	68.0	76.1	77.6	71.6	66.8	57.2	58.2	56.1
21	53.6	55.1	61.5	60.4	71.7	72.7	61.5	57.2	56.3	57.5	56.4
22	53.5	55.0	59.2	59.3	67.9	67.9	55.1	68.5	64.8	55.4	55.0
23	53.5	55.0	57.6	58.5	63.7	63.6	62.5	71.9	62.5	55.2	55.0
24	53.5	55.0	55.4	55.0	56.1	61.3	63.7	70.2	67.6	58.0	55.0
25	53.5	55.0	55.0	55.0	58.3	65.7	68.6	64.0	58.5	58.2	55.0
26	53.5	55.0	55.0	55.0	60.3	68.8	65.8	63.4	63.3	57.3	55.0
27	53.5	55.0	55.0	55.0	60.5	68.2	61.4	66.2	63.2	56.0	55.6
28	53.5	55.0	55.0	55.0	59.7	62.7	65.9	65.3	65.1	55.0	55.3
29	53.5	55.0	55.0	55.0	55.3	62.2	63.2	66.0	63.8	55.1	55.0
30	53.5	55.0	55.0	55.0	55.6	61.1	63.8	64.0	62.7	55.0	55.0
31	53.5	55.0	55.0	55.0	55.0	59.8	61.0	64.1	61.7	55.0	55.0
32	53.5	55.0	55.0	55.0	55.0	56.5	60.9	61.6	59.8	55.0	55.0
33	53.5	55.0	55.0	55.0	55.0	55.0	56.5	58.0	56.5	55.0	55.0
34	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.4	55.0	55.0	55.0
35	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	56.2	57.8	58.9	59.5	66.1	71.6	71.3	73.4	70.6	61.3	59.3
D	65.0	66.3	68.1	68.7	74.7	77.5	75.4	77.2	74.7	68.2	67.2
OASPL	66.1	71.5	73.8	76.8	83.4	84.5	81.1	82.4	78.3	73.7	72.3
PNL	79.2	80.7	81.3	81.6	84.5	86.8	84.8	85.8	83.6	81.1	80.7
PNLT	79.2	80.7	81.3	81.6	84.5	86.8	86.0	85.8	83.6	81.1	80.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 72, 130 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-26.5	-21.0	-15.5	-10.0	-4.5	0	1.0	6.5	12.0	13.0
17	54.7	59.1	67.2	71.8	75.6	66.5	67.6	69.0	71.6	70.4
18	53.4	58.2	68.5	69.5	74.2	64.0	63.5	67.7	68.1	66.5
19	54.4	57.5	68.7	69.7	73.4	65.9	67.0	64.1	63.7	63.8
20	53.2	58.1	70.3	72.3	73.9	65.4	62.2	63.0	62.8	61.2
21	50.4	55.7	67.1	67.3	67.3	57.6	58.2	60.2	59.3	60.0
22	50.4	55.0	62.3	63.3	61.0	65.9	66.0	55.9	57.4	57.3
23	50.4	55.0	61.7	58.1	57.3	71.2	65.2	55.6	57.6	57.4
24	50.4	55.0	57.8	55.0	62.5	69.1	68.2	58.0	57.0	57.4
25	50.4	55.0	56.6	55.0	68.4	63.3	59.5	57.5	55.0	55.0
26	50.4	55.0	55.0	55.0	70.1	60.8	61.9	56.0	55.0	55.0
27	50.4	55.0	55.0	55.0	65.1	64.8	63.7	55.3	56.0	55.0
28	50.4	55.0	55.1	55.4	60.7	64.0	65.7	55.0	58.9	55.0
29	50.4	55.0	55.6	55.0	62.8	63.5	62.7	55.0	55.0	55.0
30	50.4	55.0	56.4	55.0	60.5	62.7	61.8	55.0	55.0	55.0
31	50.4	55.0	55.0	55.0	59.0	62.6	62.1	55.0	55.0	55.0
32	50.4	55.0	55.0	55.0	56.3	60.1	59.5	55.0	55.0	55.0
33	50.4	55.0	55.0	55.0	55.0	56.6	56.9	55.0	55.0	55.0
34	50.4	55.0	55.0	55.0	55.0	55.3	55.2	55.0	55.0	55.0
35	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	53.4	57.8	62.3	61.7	71.1	71.9	71.1	60.9	61.7	59.5
D	62.4	66.2	70.4	70.8	76.3	76.3	75.4	69.6	69.4	68.3
OASPL	70.7	71.7	77.4	79.4	82.4	81.0	80.1	81.1	78.4	78.0
PNL	76.2	80.7	82.2	82.3	85.9	84.9	83.9	81.4	81.6	81.3
PNLT	76.2	80.7	82.2	82.3	85.9	84.9	83.9	81.4	82.7	81.3

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 73, 130 MPH FLY BY, MIC. 150 METERS EAST

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-29.0	-23.0	-17.0	-11.0	-5.0	0	1.0	7.0	13.0	14.0
17	56.9	59.1	72.6	68.8	71.4	68.2	69.3	60.6	57.7	55.3
18	59.4	60.0	70.9	69.4	71.3	65.7	64.6	58.9	55.9	55.0
19	58.7	59.4	71.6	68.9	71.2	67.9	69.6	58.0	55.4	55.0
20	51.2	56.0	70.8	69.3	71.7	69.4	63.2	56.9	55.0	55.1
21	52.4	55.0	67.0	67.3	65.9	55.9	56.0	56.5	55.5	56.0
22	50.4	55.0	64.0	63.3	60.6	67.7	69.7	55.0	55.2	55.0
23	50.4	55.0	63.1	60.0	56.7	70.6	66.6	55.0	56.4	55.4
24	50.4	55.0	57.5	55.3	55.0	72.6	72.8	57.4	56.4	55.0
25	50.4	55.0	55.6	55.0	61.0	65.7	63.5	57.5	55.0	55.0
26	50.4	55.0	55.0	55.0	63.2	60.7	62.0	57.8	55.0	55.0
27	50.4	55.0	55.0	55.0	62.1	66.0	65.5	58.5	55.0	55.0
28	50.4	55.0	55.5	56.6	57.5	63.8	66.4	55.0	55.2	55.0
29	50.4	55.0	55.0	55.0	59.1	67.2	65.3	55.0	55.0	55.0
30	50.4	55.0	55.0	55.0	59.9	63.8	64.5	55.0	55.0	55.0
31	50.4	55.0	55.0	55.0	58.1	63.2	63.3	55.0	55.0	55.0
32	50.4	55.0	55.0	55.0	57.0	61.4	61.5	55.0	55.0	55.0
33	50.4	55.0	55.0	55.0	55.0	58.4	57.9	55.0	55.0	55.0
34	50.4	55.0	55.0	55.0	55.0	55.2	55.1	55.0	55.0	55.0
35	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	53.7	57.4	62.2	62.1	67.4	73.3	73.0	61.9	59.0	58.0
D	61.9	66.1	71.2	70.1	73.0	77.6	77.2	68.2	66.7	66.2
OASPL	65.9	70.8	79.2	77.1	79.3	82.9	82.4	74.3	71.6	66.7
PNL	76.3	80.7	82.6	82.1	83.2	86.4	86.3	81.0	80.7	80.7
PNLT	76.3	80.7	82.6	82.1	83.2	87.6	86.3	81.0	80.7	80.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 46, 6 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-13.5	-9.5	-5.5	-1.5	0	2.5	6.5	10.5	14.5	17.5
17	67.0	72.0	74.4	71.3	65.6	68.7	67.2	67.1	66.5	63.6
18	68.4	70.2	70.5	64.7	62.6	59.8	63.2	66.7	63.1	60.9
19	67.7	67.8	67.4	63.3	68.1	65.0	63.0	67.1	63.7	61.9
20	64.2	64.8	62.9	63.1	66.9	64.3	55.4	62.6	60.4	59.7
21	60.0	55.9	56.6	65.4	70.0	65.9	61.6	58.8	58.5	57.1
22	54.9	54.1	65.5	74.3	76.5	71.4	69.3	52.5	58.7	58.9
23	56.0	59.9	66.4	70.3	71.6	61.7	66.7	61.2	53.1	58.5
24	57.6	68.6	69.3	60.4	70.9	72.4	68.3	69.9	57.7	60.5
25	58.8	72.1	62.6	71.9	70.6	66.1	64.6	71.1	65.4	54.6
26	63.7	71.1	67.6	69.3	71.6	68.1	67.5	65.8	68.5	55.2
27	60.2	65.3	70.6	67.3	70.1	66.2	63.3	59.8	65.6	57.3
28	52.5	70.4	62.2	64.7	68.7	66.9	63.6	62.2	55.4	57.3
29	53.0	64.0	60.9	64.2	66.9	66.2	60.8	57.4	59.7	54.5
30	49.5	59.4	59.4	63.5	65.0	64.8	59.0	56.8	57.6	51.7
31	48.3	54.7	57.7	62.8	64.4	62.7	57.9	53.5	53.1	48.2
32	46.0	51.9	56.3	61.8	64.1	61.1	55.8	52.3	50.3	45.6
33	45.5	47.7	54.7	60.5	62.5	58.6	52.7	48.6	46.1	45.0
34	45.0	45.0	51.2	58.9	59.9	56.5	51.2	45.5	45.0	45.0
35	45.0	45.0	46.8	54.9	56.9	53.6	47.3	45.0	45.0	45.0
36	45.0	45.0	45.0	50.7	53.0	49.9	45.0	45.0	45.0	45.0
37	45.0	45.0	45.0	45.8	47.9	46.5	45.0	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
A	62.8	73.6	71.3	74.3	76.4	73.8	70.3	69.7	68.1	61.9
D	69.2	77.1	75.8	78.9	80.9	77.7	74.7	74.8	71.6	66.7
OASPL	80.7	81.9	81.7	82.1	83.5	81.7	80.0	78.2	75.1	72.1
PNL	77.8	83.9	84.0	86.0	87.9	85.5	82.3	82.1	80.7	75.2
PNLT	77.8	85.8	84.0	86.0	87.9	85.5	82.3	83.3	81.7	75.2

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 54, 9 DEGREE APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-11.0	-7.5	-4.0	-.5	0	3.0	6.5	10.0	12.5
17	70.3	68.2	67.9	75.1	70.4	70.0	71.5	71.8	70.6	67.6
18	67.6	67.0	70.2	68.0	66.6	62.5	68.5	66.2	64.6	63.4
19	70.8	71.6	69.1	70.1	67.9	66.9	66.2	64.8	63.4	64.4
20	68.9	67.6	67.2	61.0	66.0	65.9	70.8	58.9	59.5	57.0
21	61.8	58.7	57.5	57.9	71.6	71.9	75.8	57.8	56.1	55.0
22	56.3	53.8	54.8	66.4	76.3	76.2	75.5	59.8	58.1	57.1
23	59.8	53.1	63.6	73.5	75.5	73.0	69.6	60.9	54.1	55.4
24	54.7	52.3	65.7	66.1	73.0	74.4	68.9	65.8	54.0	59.4
25	60.9	56.9	66.2	66.1	74.6	74.1	72.3	62.9	57.4	53.9
26	59.1	60.4	65.2	73.0	70.8	69.7	69.5	56.3	59.7	50.4
27	59.1	57.5	62.1	66.8	70.0	68.8	68.4	60.8	62.2	49.9
28	51.9	51.9	62.0	66.0	66.9	67.3	67.9	59.5	61.1	53.7
29	48.7	51.9	56.2	59.8	65.5	65.9	65.5	58.3	53.8	53.7
30	47.1	47.0	53.3	58.1	62.6	61.4	63.2	57.6	57.5	50.3
31	45.4	46.6	51.4	56.2	59.3	59.1	60.2	56.0	54.0	48.4
32	45.0	45.1	48.5	53.9	58.1	58.6	58.4	54.3	53.7	47.8
33	45.0	45.0	46.6	51.8	55.3	56.5	55.5	51.3	49.3	45.0
34	45.0	45.0	45.0	49.4	52.6	53.4	52.8	48.4	45.7	45.0
35	45.0	45.0	45.0	46.0	49.6	50.6	49.7	45.2	45.0	45.0
36	45.0	45.0	45.0	45.0	47.0	48.6	46.9	45.0	45.0	45.0
37	45.0	45.0	45.0	45.0	45.0	45.7	45.2	45.0	45.0	45.0
38	45.0	45.0	45.0	45.0	45.0	45.7	45.0	45.0	45.0	45.0
39	45.0	45.0	45.0	45.0	45.0	45.4	45.0	45.0	45.0	45.0
40	45.0	45.0	45.0	45.0	45.0	45.5	45.0	45.0	45.0	45.0
A	62.0	60.6	67.9	72.6	75.7	75.0	74.3	66.8	65.3	60.1
D	68.8	68.1	72.5	77.6	80.8	80.3	79.2	71.5	69.1	65.4
OASPL	78.4	78.4	80.4	85.0	85.3	84.9	85.0	79.7	77.1	74.1
PNL	76.6	76.3	80.2	85.1	87.5	87.2	86.4	79.3	77.8	74.2
PNLT	76.6	76.3	80.2	85.1	87.5	87.2	86.4	79.3	79.0	74.2

LOWER LIMIT OF ANALYSIS SYSTEM= 45.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 59, 70 MPH APPROACH, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-37.5	-30.0	-22.5	-15.0	-7.5	0	7.5	15.0
17	.0	68.1	69.3	67.9	71.0	74.4	70.9	66.5
18	.0	67.1	71.0	67.7	69.5	67.3	68.2	66.3
19	.0	66.0	72.4	66.9	68.7	67.5	67.3	64.6
20	.0	62.2	70.5	66.5	66.8	68.6	63.4	60.8
21	.0	61.0	66.1	60.2	56.0	72.9	58.0	58.5
22	.0	57.3	59.9	56.6	57.7	77.7	59.7	56.4
23	.0	56.2	64.6	59.3	61.8	71.6	62.1	55.6
24	.0	55.3	60.2	55.1	69.9	74.0	67.8	55.6
25	.0	56.7	60.9	59.5	71.2	73.8	66.9	55.5
26	.0	55.6	59.2	63.3	68.3	71.3	58.3	55.2
27	.0	55.0	63.4	62.0	63.3	69.9	62.6	58.4
28	.0	55.0	64.1	58.0	64.4	70.7	60.2	56.9
29	.0	55.0	62.4	55.0	58.4	67.4	57.6	55.0
30	.0	55.0	58.2	55.0	57.7	64.8	55.9	55.0
31	.0	55.0	55.2	55.0	57.0	63.2	55.6	55.0
32	.0	55.0	55.0	55.0	55.3	62.1	55.0	55.0
33	.0	55.0	55.0	55.0	55.0	59.6	55.0	55.0
34	.0	55.0	55.0	55.0	55.0	57.6	55.0	55.0
35	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	58.2	59.3	68.3	63.7	70.5	76.0	66.9	61.0
D	69.1	69.4	73.8	71.3	76.1	81.0	73.5	69.7
OASPL	72.5	76.3	79.8	76.9	80.7	85.8	78.9	75.7
PNL	.0	81.4	83.5	82.2	85.0	89.3	83.0	81.3
PNLT	.0	81.4	83.5	82.2	86.2	89.3	83.0	81.3

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 60, 70 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-15.0	-10.0	-5.0	0	5.0	10.0	15.0	20.0	23.0
17	.0	64.2	66.9	71.1	67.1	65.2	64.0	60.3	.0
18	.0	65.2	65.6	64.3	58.3	59.5	59.5	57.9	.0
19	.0	65.0	65.1	59.2	58.5	62.5	61.1	58.3	.0
20	.0	64.6	64.4	63.7	60.6	55.6	58.8	57.1	.0
21	.0	60.3	56.3	69.5	64.5	56.3	56.5	56.9	.0
22	.0	56.3	61.6	73.9	65.6	58.0	56.2	55.9	.0
23	.0	57.0	64.9	73.1	63.2	59.8	56.4	55.1	.0
24	.0	58.0	68.4	67.4	59.1	62.5	59.7	55.0	.0
25	.0	60.1	67.0	75.8	67.0	58.8	60.7	55.0	.0
26	.0	62.6	66.5	73.8	60.6	55.6	57.5	55.0	.0
27	.0	63.2	67.8	71.1	64.4	59.8	55.0	55.4	.0
28	.0	55.6	65.5	68.2	62.8	55.8	55.8	55.0	.0
29	.0	57.1	58.6	66.9	62.4	56.8	55.3	55.0	.0
30	.0	55.0	55.4	64.8	61.9	55.5	55.0	55.0	.0
31	.0	55.0	56.2	65.5	60.8	55.0	55.0	55.0	.0
32	.0	55.0	55.0	65.4	59.2	55.0	55.0	55.0	.0
33	.0	55.0	55.0	62.1	55.9	55.0	55.0	55.0	.0
34	.0	55.0	55.0	58.9	55.0	55.0	55.0	55.0	.0
35	.0	55.0	55.0	55.3	55.0	55.0	55.0	55.0	.0
36	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
37	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
38	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
39	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
40	.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
A	55.9	64.4	70.0	76.3	70.2	63.8	62.0	58.7	.0
D	66.2	71.4	75.4	81.3	74.8	70.9	70.1	68.8	5.0
OASPL	82.2	76.0	80.2	84.3	76.9	74.5	72.1	69.7	.0
PNL	.0	82.0	84.2	89.6	83.5	81.5	81.2	80.8	.0
PNLT	.0	82.0	84.2	89.6	83.5	81.5	81.2	80.8	.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 61, 70 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-20.0	-16.0	-12.0	-8.0	-4.0	0	3.0	4.0	8.0	9.5
17	65.8	65.9	68.9	70.2	69.6	71.2	68.8	65.5	72.2	68.1
18	65.7	65.5	70.5	70.8	71.1	65.5	66.2	65.5	68.3	63.2
19	65.1	64.0	69.6	71.1	65.5	65.0	63.7	59.9	66.6	64.4
20	63.7	63.2	69.9	70.7	62.7	68.6	70.2	65.6	62.4	62.0
21	62.0	60.1	63.5	61.8	56.9	70.5	76.4	72.5	58.2	59.0
22	58.6	56.8	58.0	56.2	63.6	73.3	75.8	72.6	56.8	55.0
23	58.9	56.9	58.0	59.4	69.0	69.9	73.4	70.9	62.6	55.8
24	55.6	55.0	55.5	69.3	70.7	74.0	75.6	69.0	67.4	60.1
25	56.5	55.0	65.5	76.8	69.6	75.3	80.5	76.8	66.3	62.0
26	55.0	56.8	69.7	77.8	74.8	73.0	76.2	72.7	59.4	59.5
27	55.0	57.9	67.4	71.6	73.7	70.9	76.3	73.2	63.6	56.0
28	55.0	56.4	63.3	65.2	67.4	68.0	71.0	67.6	59.2	58.2
29	55.6	55.0	59.2	63.2	62.9	66.0	65.5	62.5	58.1	55.0
30	55.0	55.0	58.5	59.0	62.2	63.8	62.6	61.4	57.2	55.8
31	55.0	55.0	55.0	56.2	60.8	61.3	61.8	60.7	55.5	55.0
32	55.0	55.0	55.0	55.0	56.1	59.0	59.0	58.3	55.0	55.0
33	55.0	55.0	55.0	55.0	55.0	56.9	55.4	55.3	55.0	55.0
34	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
35	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	60.2	60.6	69.1	76.5	75.3	75.8	78.8	75.3	67.3	63.4
D	69.8	69.7	74.6	80.9	79.5	80.9	83.8	79.9	73.2	70.6
OASPL	77.1	74.6	79.6	83.8	82.3	84.0	86.4	83.3	79.2	76.2
PNL	81.4	81.4	84.7	89.3	88.1	88.9	91.9	89.0	83.0	81.7
PNLT	81.4	81.4	84.7	89.3	88.1	88.9	91.9	89.0	83.0	81.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 63, 106 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-34.5	-27.5	-20.5	-13.5	-6.5	-1.5	0	.5	7.5	14.5	17.5
17	56.3	58.6	66.9	67.5	70.4	67.9	69.7	69.9	68.9	63.1	61.9
18	57.2	60.8	68.6	70.0	70.6	71.2	63.4	62.1	68.4	59.9	59.7
19	56.9	60.7	70.5	70.2	70.1	66.2	65.2	66.6	65.5	62.3	58.9
20	58.2	60.1	70.8	70.2	69.4	60.9	64.8	65.3	61.3	60.0	58.7
21	58.0	59.1	67.5	67.4	64.7	63.3	67.0	67.8	60.5	58.8	57.5
22	56.1	57.0	63.3	64.3	58.3	70.9	73.9	74.3	57.2	56.9	56.5
23	55.3	55.3	59.8	66.3	57.4	76.3	73.1	70.5	57.3	56.3	55.1
24	54.7	55.5	55.7	64.3	57.9	73.0	69.3	71.6	61.8	55.7	55.0
25	53.5	55.0	56.3	63.4	62.7	71.1	68.2	67.8	61.5	55.0	55.0
26	53.5	55.0	55.9	60.8	64.0	76.4	68.7	67.0	55.9	55.3	55.0
27	53.5	55.0	55.4	63.6	60.1	71.3	65.0	64.0	55.2	56.3	55.0
28	53.5	55.0	55.0	64.9	56.5	71.2	64.7	64.2	55.6	55.4	55.0
29	53.5	55.0	55.0	58.9	57.5	67.0	64.4	64.1	55.0	55.0	55.0
30	53.5	55.0	55.0	56.2	55.0	64.2	62.5	62.2	55.0	55.0	55.0
31	53.5	55.0	55.0	55.3	55.0	62.5	61.2	61.1	55.0	55.0	55.0
32	53.5	55.0	55.0	55.0	55.0	60.0	60.2	60.7	55.0	55.0	55.0
33	53.5	55.0	55.0	55.0	55.0	58.7	58.9	59.2	55.0	55.0	55.0
34	53.5	55.0	55.0	55.0	55.0	56.2	56.7	56.9	55.0	55.0	55.0
35	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.1	55.0	55.0	55.0
36	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	57.1	58.4	61.5	67.9	65.3	76.8	72.9	72.6	62.5	60.1	57.8
D	67.2	68.9	71.4	73.7	72.3	81.4	78.7	78.7	70.8	69.0	68.5
OASPL	67.7	69.3	77.8	78.8	79.4	83.8	82.5	82.8	79.1	72.5	71.1
PNL	79.4	80.9	82.2	83.7	82.7	89.9	86.7	86.4	81.8	81.0	80.8
PNLT	79.4	80.9	82.2	85.0	82.7	89.9	86.7	86.4	81.8	81.0	80.8

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 65, 106 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-12.0	-9.0	-6.0	-3.0	0	3.0	6.0	9.0	12.0
17	64.7	69.5	73.3	74.9	71.5	66.6	69.6	64.7	.0
18	64.7	70.0	72.6	72.8	69.4	64.9	67.1	59.4	.0
19	64.2	71.8	72.9	75.0	63.1	61.6	66.3	62.8	.0
20	64.4	71.4	73.5	72.0	64.6	63.1	62.9	58.4	.0
21	58.4	66.5	67.1	61.7	65.8	66.6	57.8	57.7	.0
22	56.7	61.9	61.9	62.8	73.2	69.6	57.8	55.5	.0
23	55.2	60.3	58.0	73.6	74.2	64.3	61.9	55.0	.0
24	50.4	55.0	57.5	75.4	68.0	63.8	65.8	55.0	.0
25	50.4	56.8	65.5	76.4	69.5	69.2	66.4	55.2	.0
26	54.2	63.3	66.3	67.9	70.4	62.8	59.3	55.0	.0
27	51.7	60.2	60.6	71.0	68.6	63.3	59.8	55.3	.0
28	50.4	61.0	57.4	66.9	66.8	63.4	61.2	55.0	.0
29	50.4	55.0	57.2	63.2	64.6	63.1	57.2	55.0	.0
30	50.4	55.0	55.1	60.9	62.8	61.1	55.5	55.0	.0
31	50.4	55.0	55.0	59.3	62.2	59.3	55.7	55.0	.0
32	50.4	55.0	55.0	58.7	61.8	57.4	55.0	55.0	.0
33	50.4	55.0	55.0	55.8	60.5	55.3	55.0	55.0	.0
34	50.4	55.0	55.0	55.0	57.1	55.0	55.0	55.0	.0
35	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
36	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
37	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
38	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
39	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
40	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
A	57.2	64.7	66.7	74.5	74.2	70.4	66.5	59.2	.0
D	65.9	72.6	74.0	80.6	79.5	75.9	72.9	68.8	5.0
OASPL	72.4	79.1	81.3	85.0	83.3	81.6	78.0	71.2	.0
PNL	77.3	82.9	83.6	89.1	87.6	84.5	82.7	80.9	.0
PNLT	77.3	84.0	83.6	89.1	87.6	84.5	82.7	80.9	.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 66, 106 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-14.5	-10.5	-6.5	-2.5	0	1.5	5.5	9.5	13.5
17	59.2	69.1	72.9	68.7	68.5	66.9	71.5	62.6	.0
18	57.9	68.2	72.4	68.3	63.8	57.8	65.4	60.0	.0
19	58.4	69.0	73.6	67.9	63.9	64.3	66.9	61.1	.0
20	60.9	70.6	73.0	66.2	64.8	66.0	57.7	57.1	.0
21	57.4	66.2	67.7	55.7	67.3	64.3	58.6	57.0	.0
22	54.7	63.6	60.5	61.0	74.3	71.9	64.8	56.3	.0
23	54.7	63.3	57.2	69.4	75.5	64.8	66.2	55.0	.0
24	50.4	57.1	58.6	67.5	68.7	71.4	68.7	55.4	.0
25	50.4	59.9	66.6	69.0	68.0	64.7	66.4	59.1	.0
26	50.4	55.6	69.0	63.3	70.9	66.1	62.1	61.1	.0
27	50.4	55.8	63.9	64.0	66.5	61.6	64.2	60.3	.0
28	50.4	56.7	60.8	59.9	64.9	63.3	59.1	55.1	.0
29	50.4	55.7	60.2	59.2	62.6	62.0	58.1	55.9	.0
30	50.4	55.0	56.3	58.7	61.2	61.6	56.7	55.2	.0
31	50.4	55.0	56.1	57.5	60.9	61.0	55.2	55.0	.0
32	50.4	55.0	55.0	57.2	60.7	59.6	55.0	55.0	.0
33	50.4	55.0	55.0	55.7	60.5	57.2	55.0	55.0	.0
34	50.4	55.0	55.0	55.0	57.6	55.8	55.0	55.0	.0
35	50.4	55.0	55.0	55.0	55.2	55.0	55.0	55.0	.0
36	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
37	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
38	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
39	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
40	50.4	55.0	55.0	55.0	55.0	55.0	55.0	55.0	.0
A	54.7	63.0	68.8	69.3	73.4	71.4	67.8	63.2	.0
D	64.9	71.5	74.9	75.2	79.4	77.0	73.8	70.4	5.0
OASPL	67.9	77.6	81.4	80.3	82.5	81.2	77.7	71.4	.0
PNL	76.7	82.5	84.8	84.2	87.7	85.4	83.4	81.3	.0
PNLT	76.7	82.5	84.8	84.2	87.7	85.4	83.4	81.3	.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 67, 118 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-10.0	-8.5	-7.0	-5.5	-4.0	-2.5	-1.0	0	.5	2.5
17	71.6	73.7	78.2	79.1	75.4	73.6	75.8	72.9	75.0	71.2
18	70.2	72.9	76.1	77.1	74.3	71.6	72.6	69.4	67.0	69.0
19	71.9	73.5	75.4	75.6	72.8	71.4	65.3	65.7	66.7	65.3
20	73.2	74.9	74.9	75.6	73.1	68.8	68.6	68.6	66.6	65.7
21	68.6	69.8	69.5	69.3	62.9	61.3	74.4	71.9	69.0	66.5
22	64.4	66.4	63.2	61.1	58.8	65.8	80.2	77.5	74.7	67.6
23	62.3	64.2	60.2	61.3	67.6	73.9	83.7	78.9	70.4	64.2
24	57.3	58.6	55.7	62.0	66.1	71.2	74.6	74.1	72.8	63.9
25	56.9	61.4	59.8	71.6	73.6	71.3	82.0	77.1	68.8	69.1
26	64.8	69.4	63.0	72.9	69.9	70.6	79.9	73.1	68.3	64.7
27	62.3	67.8	59.9	67.1	62.7	68.3	79.6	73.1	66.3	63.3
28	59.9	65.4	58.5	65.2	66.1	66.1	76.8	71.2	65.9	62.9
29	55.9	61.6	55.8	61.8	60.0	62.8	73.8	66.7	64.1	63.5
30	56.1	62.1	55.0	57.4	58.2	61.6	70.1	65.9	63.0	61.4
31	55.0	58.4	55.0	55.6	56.1	60.4	68.8	65.2	61.5	59.3
32	55.0	56.1	55.0	55.0	56.1	60.2	67.0	63.1	60.5	57.8
33	55.0	55.0	55.0	55.0	55.2	58.1	64.2	61.3	58.4	55.8
34	55.0	55.0	55.0	55.0	55.0	56.2	60.0	57.9	56.6	55.0
35	55.0	55.0	55.0	55.0	55.0	55.0	56.6	55.8	55.2	55.0
36	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	66.6	71.8	65.7	72.1	71.8	73.2	82.2	76.9	73.6	70.3
D	73.6	76.5	74.9	78.2	77.6	78.9	86.9	82.2	79.1	75.6
OASPL	81.6	82.8	85.3	85.8	84.6	84.0	90.2	85.8	83.4	82.4
PNL	83.4	85.9	84.0	87.5	86.8	87.3	95.0	91.1	87.3	84.7
PNLT	83.4	85.9	84.0	87.5	88.4	87.3	95.0	91.1	87.3	84.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 68, 118 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-24.5	-19.5	-14.5	-9.5	-6.5	-4.5	0	.5	5.5	10.5	12.5
17	58.2	65.6	68.4	73.7	76.4	74.1	68.8	67.8	72.0	61.7	61.6
18	57.8	64.3	67.2	70.7	74.9	73.2	64.8	64.0	68.1	58.6	58.4
19	56.1	64.8	69.6	71.9	75.4	73.2	64.7	65.5	66.9	57.1	57.8
20	55.5	65.1	71.1	72.7	75.3	73.4	64.9	65.1	63.1	55.1	55.1
21	53.5	60.0	67.8	68.6	68.2	64.9	65.4	65.5	60.2	56.5	56.5
22	53.5	56.6	65.3	63.9	61.5	56.2	73.1	72.6	57.4	55.0	55.0
23	53.5	55.8	60.3	60.4	59.6	64.6	72.5	67.8	62.0	55.0	55.3
24	53.5	55.0	58.2	55.4	62.2	63.9	71.0	71.2	66.6	55.0	56.6
25	53.5	55.0	60.2	56.8	70.9	71.9	66.0	65.9	66.1	55.0	55.0
26	53.5	55.0	58.5	57.9	73.5	70.2	67.3	66.4	59.7	55.5	55.0
27	53.5	55.0	55.6	58.6	67.8	62.4	64.7	62.3	61.1	56.7	55.0
28	53.5	55.0	57.9	57.7	62.2	65.7	64.2	63.0	59.3	55.0	55.3
29	53.5	55.0	58.3	55.0	64.2	62.2	62.1	61.6	58.3	55.0	55.0
30	53.5	55.0	56.3	55.0	58.3	58.0	60.9	60.3	55.4	55.0	55.0
31	53.5	55.0	55.0	55.0	57.3	56.2	60.7	59.8	55.0	55.0	55.0
32	53.5	55.0	55.0	55.0	55.0	55.0	59.8	59.0	55.0	55.0	55.0
33	53.5	55.0	55.0	55.0	55.0	55.0	57.9	57.2	55.0	55.0	55.0
34	53.5	55.0	55.0	55.0	55.0	55.0	56.1	55.4	55.0	55.0	55.0
35	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	55.6	58.2	64.4	63.6	72.3	71.4	71.9	71.0	66.5	59.6	58.4
D	69.2	71.3	73.2	73.8	77.9	77.2	78.4	77.5	74.1	71.1	71.0
OASPL	68.4	76.0	78.2	81.0	83.6	82.1	81.9	81.8	79.1	71.0	69.9
PNL	79.2	81.2	82.7	82.9	87.5	86.0	86.1	85.5	82.8	80.7	80.7
PNLT	79.2	81.2	82.7	82.9	88.8	87.1	86.1	85.5	82.8	80.7	80.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 69: 118 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)

(DB RE 20 MICRO PA)

BAND	-24.5	-19.0	-13.5	-8.0	-2.5	0	3.0	8.5	14.0
17	60.9	62.7	67.6	70.6	71.9	69.2	62.8	61.6	57.1
18	58.1	62.4	65.2	70.7	70.3	68.4	57.4	58.3	55.9
19	57.7	64.6	64.7	71.0	69.5	62.7	56.4	59.9	55.6
20	57.4	63.9	64.0	71.2	69.3	66.9	60.3	56.9	55.0
21	55.5	62.7	60.1	65.5	56.9	74.0	64.3	55.3	55.6
22	55.0	57.9	57.0	61.2	56.5	77.2	65.6	55.0	55.0
23	55.2	57.5	56.2	57.4	66.2	76.4	59.4	55.8	55.0
24	55.7	55.0	55.0	55.0	63.2	71.8	61.0	61.2	55.0
25	55.0	55.6	55.1	57.4	68.7	76.7	65.6	62.3	55.0
26	55.0	55.0	55.0	61.6	60.4	75.9	59.7	57.8	55.0
27	55.0	55.0	55.0	58.5	59.5	72.6	60.0	55.0	55.1
28	55.0	55.0	55.0	58.3	59.3	69.8	61.3	55.7	55.0
29	55.0	55.0	55.0	55.0	57.0	66.1	61.5	55.0	55.0
30	55.0	55.0	55.0	55.0	56.1	64.4	57.1	55.0	55.0
31	55.0	55.0	55.0	55.0	55.0	62.7	55.5	55.0	55.0
32	55.0	55.0	55.0	55.0	55.1	61.5	55.0	55.0	55.0
33	55.0	55.0	55.0	55.0	55.0	59.7	55.0	55.0	55.0
34	55.0	55.0	55.0	55.0	55.0	56.8	55.0	55.0	55.0
35	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	58.4	58.9	58.8	63.7	66.8	77.2	67.0	61.5	58.1
L	70.7	70.9	71.5	73.3	74.6	83.2	73.9	71.4	71.1
OASPL	70.4	72.0	73.0	79.3	80.4	85.2	75.9	70.2	67.9
PNL	80.7	81.3	81.3	82.6	83.5	90.5	82.5	81.2	80.7
PNLT	80.7	81.3	81.3	82.6	83.5	90.5	82.5	81.2	80.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 70, 118 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-27.5	-22.0	-16.5	-11.0	-5.5	0	5.5	11.0	14.0
17	61.7	64.7	68.8	71.2	70.1	68.5	69.3	63.7	61.6
18	62.1	65.1	69.4	69.6	70.7	67.3	64.6	59.8	58.8
19	61.0	64.5	67.2	69.5	70.6	64.1	63.3	60.0	59.3
20	60.1	64.4	67.5	68.9	71.0	65.8	59.7	58.3	57.5
21	59.3	60.5	62.8	65.1	65.4	68.7	58.1	57.2	56.4
22	54.9	56.9	61.4	58.4	59.2	76.2	59.6	55.1	55.1
23	54.1	55.0	59.5	58.5	57.3	76.5	63.2	55.0	55.0
24	53.5	55.0	55.0	55.0	56.4	69.2	66.6	55.0	55.0
25	53.5	55.0	55.0	56.3	62.2	71.7	62.6	55.0	55.0
26	53.5	55.0	55.0	59.3	62.9	73.5	58.5	55.0	55.0
27	53.5	55.0	55.0	56.3	59.0	69.7	60.9	55.2	55.0
28	53.5	55.0	55.0	55.1	55.2	67.5	56.9	55.0	55.0
29	53.5	55.0	55.0	55.0	57.0	65.4	55.5	55.0	55.0
30	53.5	55.0	55.0	55.0	55.5	63.3	55.0	55.0	55.0
31	53.5	55.0	55.0	55.0	55.8	62.7	55.0	55.0	55.0
32	53.5	55.0	55.0	55.0	55.0	61.5	55.0	55.0	55.0
33	53.5	55.0	55.0	55.0	55.0	59.7	55.0	55.0	55.0
34	53.5	55.0	55.0	55.0	55.0	56.9	55.0	55.0	55.0
35	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	56.5	58.0	59.8	61.6	65.2	75.9	65.0	58.6	57.8
D	69.3	71.5	71.8	72.7	73.6	81.5	73.4	70.7	70.7
OASPL	71.2	75.0	77.7	79.3	79.9	83.8	76.8	71.7	70.3
PNL	79.5	81.2	81.8	82.1	82.7	88.9	82.3	80.8	80.8
PNLT	79.5	81.2	81.8	82.1	82.7	88.9	82.3	80.8	80.8

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 71, 130 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-28.0	-23.0	-18.0	-13.0	-8.0	-5.5	-3.0	0	2.0	7.0	9.0
17	65.2	70.9	70.1	71.9	75.3	77.8	76.8	66.4	68.3	64.4	59.7
18	60.8	66.6	68.6	72.1	74.6	75.2	72.8	60.6	60.1	60.8	58.7
19	60.8	62.6	70.0	71.9	75.6	75.5	72.4	64.3	60.8	61.1	58.4
20	56.0	61.0	72.7	73.2	76.8	76.4	71.5	67.5	63.1	58.7	55.9
21	54.3	56.8	71.0	67.8	72.7	70.8	59.0	69.2	69.0	56.6	56.3
22	53.5	55.0	70.4	63.4	68.7	63.6	58.8	73.8	66.6	55.0	55.7
23	53.5	55.0	68.5	60.8	63.4	62.3	71.5	76.5	61.1	55.5	55.0
24	53.5	55.0	63.6	56.3	57.4	61.5	63.8	72.3	63.2	61.5	55.2
25	53.5	55.0	64.5	55.5	60.2	68.8	72.1	69.6	66.9	62.9	57.3
26	53.5	55.0	61.6	55.0	65.6	72.1	66.4	71.3	62.8	61.0	58.6
27	53.5	55.0	55.0	55.9	65.3	68.1	71.4	70.2	60.9	55.9	58.7
28	53.5	55.0	55.0	56.1	60.9	62.3	66.6	66.3	62.2	60.1	55.9
29	53.5	55.0	55.0	55.0	55.9	66.4	65.8	65.1	62.2	57.5	55.0
30	53.5	55.0	55.0	55.0	55.0	59.6	62.4	63.7	61.1	57.5	55.0
31	53.5	55.0	55.0	55.0	55.0	57.0	59.1	64.4	58.7	55.2	55.0
32	53.5	55.0	55.0	55.0	55.0	55.0	56.8	62.7	57.4	55.0	55.0
33	53.5	55.0	55.0	55.0	55.0	55.0	55.4	60.8	55.0	55.0	55.0
34	53.5	55.0	55.0	55.0	55.0	55.0	55.0	58.1	55.0	55.0	55.0
35	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.8	55.0	55.0	55.0
36	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	55.7	57.1	65.7	62.5	68.3	72.8	73.4	75.4	69.2	65.3	61.3
D	69.7	71.7	75.4	73.5	76.5	78.4	78.4	80.8	74.9	72.6	71.4
OASPL	74.4	82.4	80.1	80.0	83.0	83.7	82.8	83.1	78.6	73.6	70.7
PNL	79.3	81.1	83.7	82.7	85.4	87.3	87.0	88.8	83.5	81.7	81.0
PNLT	79.3	81.1	83.7	82.7	85.4	89.1	87.0	88.8	83.5	82.9	81.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 72, 130 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-26.0	-21.0	-16.0	-11.0	-8.0	-6.0	-1.0	0	4.0	9.0	12.0
17	59.2	61.6	68.0	71.6	73.2	74.5	71.7	67.2	69.8	63.5	59.0
18	56.3	59.8	67.4	70.7	72.9	72.8	66.1	65.3	65.0	59.4	55.8
19	53.5	58.5	68.7	70.7	73.9	73.0	67.9	66.0	66.3	60.6	61.3
20	53.5	59.5	71.0	73.2	73.7	72.8	64.2	69.7	60.4	58.1	57.6
21	53.5	57.2	65.9	66.5	68.6	67.4	64.7	71.2	63.7	56.2	55.1
22	53.5	55.0	64.1	62.2	62.9	61.2	71.1	73.1	65.2	55.0	55.0
23	53.5	55.0	62.2	56.3	61.7	61.5	75.3	75.0	66.8	55.0	55.0
24	53.5	55.0	57.9	55.0	64.0	64.1	66.6	68.0	65.5	55.4	55.0
25	53.5	55.0	58.5	57.8	68.8	66.2	70.1	70.7	61.9	55.7	55.0
26	53.5	55.0	55.0	64.2	71.3	67.0	74.0	71.2	63.0	55.7	55.0
27	53.5	55.0	57.8	62.9	67.3	61.9	68.4	69.3	60.3	56.4	55.0
28	53.5	55.0	56.6	57.6	60.7	62.6	66.2	65.8	59.6	55.0	55.0
29	53.5	55.0	55.3	55.2	64.0	61.4	63.8	63.7	58.8	55.0	55.0
30	53.5	55.0	55.0	55.8	57.2	61.4	61.6	62.2	56.8	55.0	55.0
31	53.5	55.0	55.0	55.0	58.0	58.8	60.0	60.7	55.8	55.0	55.0
32	53.5	55.0	55.0	55.0	56.4	55.3	59.2	60.4	55.2	55.0	55.0
33	53.5	55.0	55.0	55.0	55.0	55.0	57.5	58.9	55.0	55.0	55.0
34	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.6	55.0	55.0	55.0
35	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
36	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	55.7	57.7	62.7	65.7	70.9	69.7	74.3	73.8	66.8	59.6	58.4
D	69.1	71.1	72.8	74.2	77.2	75.9	79.6	79.6	74.3	71.3	71.1
OASPL	68.1	72.6	77.6	80.5	81.8	81.7	83.1	83.0	78.0	70.8	69.0
PNL	79.1	80.8	82.4	83.0	86.4	84.8	88.1	87.8	83.0	80.9	80.8
PNLT	79.1	80.8	82.4	83.0	88.1	84.8	88.1	87.8	83.0	80.9	80.8

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 73, 130 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-27.5	-22.0	-16.5	-11.0	-5.5	0	5.5	11.0	13.5
17	55.7	60.8	65.4	67.6	75.5	66.2	64.5	64.5	66.5
18	55.0	62.4	65.9	65.3	75.5	62.1	61.5	61.1	62.9
19	58.9	59.5	66.8	66.5	75.5	64.0	59.8	60.2	61.2
20	55.8	57.8	68.2	67.9	76.3	66.9	58.0	57.5	58.6
21	55.0	55.4	65.7	67.4	70.8	65.8	56.0	58.9	57.0
22	55.2	55.0	61.5	63.3	65.8	73.3	56.9	57.2	55.2
23	55.0	55.0	58.9	62.1	61.2	77.8	61.6	59.9	55.7
24	55.0	55.0	55.3	57.9	55.6	68.2	66.6	59.7	56.3
25	55.0	55.0	55.0	56.1	63.2	69.0	66.6	55.3	55.0
26	55.0	55.0	55.1	55.5	68.5	75.1	59.4	55.6	55.0
27	55.0	55.0	55.1	57.6	63.9	70.5	60.5	60.0	55.1
28	55.0	55.0	55.0	55.4	59.0	68.3	60.6	58.2	55.7
29	55.0	55.0	55.0	55.2	59.3	66.8	57.8	55.0	55.0
30	55.0	55.0	55.0	55.0	57.9	65.3	56.4	55.0	55.0
31	55.0	55.0	55.0	55.0	55.8	64.1	55.6	55.0	55.0
32	55.0	55.0	55.0	55.0	56.4	63.3	55.0	55.0	55.0
33	55.0	55.0	55.0	55.0	55.5	62.1	55.0	55.0	55.0
34	55.0	55.0	55.0	55.0	55.0	59.0	55.0	55.0	55.0
35	55.0	55.0	55.0	55.0	55.0	55.7	55.0	55.0	55.0
36	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	57.0	58.0	60.3	62.2	68.7	76.3	66.6	62.4	59.4
D	70.8	70.8	72.3	72.4	76.4	81.8	73.9	71.4	71.1
OASPL	66.8	72.0	74.5	75.5	82.8	83.8	76.9	73.8	74.0
PNL	80.7	80.8	81.7	82.1	85.3	89.6	82.3	81.4	81.0
PNLT	80.7	80.8	81.7	82.1	85.3	89.6	82.3	81.4	81.0

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 74, 145 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)
(DB RE 20 MICRO PA)

BAND	-24.5	-19.5	-14.5	-9.5	-4.5	-.5	0	.5	5.5	10.5	13.5
17	56.6	62.5	68.9	73.3	76.6	71.6	69.0	66.6	64.5	61.3	59.6
18	56.4	58.6	65.3	71.5	73.8	65.9	63.6	63.2	61.0	57.7	58.0
19	56.0	60.2	63.9	71.2	73.8	63.5	65.1	68.1	60.4	58.1	56.0
20	55.6	60.7	62.8	73.7	74.0	67.4	68.6	68.5	57.9	55.9	55.4
21	55.0	56.3	63.8	72.8	68.1	64.4	65.6	66.4	55.0	55.4	55.0
22	55.0	55.0	62.2	70.3	59.1	70.4	73.4	75.6	55.2	55.0	55.0
23	55.2	55.0	58.4	66.5	65.2	78.7	78.1	76.3	60.1	55.0	55.0
24	55.0	55.0	56.7	63.9	62.6	66.8	69.0	72.6	64.9	55.0	55.0
25	55.0	55.0	55.0	59.5	67.0	70.4	69.1	69.5	64.7	55.0	55.0
26	55.0	55.0	56.1	62.1	67.0	74.4	73.9	72.3	58.6	55.0	55.0
27	55.0	55.0	55.0	62.5	60.2	70.4	71.3	70.8	58.6	55.0	55.1
28	55.0	55.0	55.0	58.1	61.4	68.1	68.4	67.8	58.1	55.0	55.0
29	55.0	55.0	55.0	55.6	58.7	66.0	65.9	65.9	55.6	55.0	55.0
30	55.0	55.0	55.0	55.0	56.0	66.5	65.3	65.0	55.0	55.0	55.0
31	55.0	55.0	55.0	55.0	55.0	65.3	64.5	64.1	55.0	55.0	55.0
32	55.0	55.0	55.0	55.0	55.0	62.9	62.7	62.2	55.0	55.0	55.0
33	55.0	55.0	55.0	55.0	55.0	62.3	61.7	61.1	55.0	55.0	55.0
34	55.0	55.0	55.0	55.0	55.0	58.3	57.8	57.3	55.0	55.0	55.0
35	55.0	55.0	55.0	55.0	55.0	55.1	55.0	55.0	55.0	55.0	55.0
36	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	56.9	56.8	60.1	66.8	68.0	76.1	76.0	75.6	64.7	58.0	57.5
D	70.7	70.8	71.7	75.8	75.8	81.8	81.9	81.8	72.9	70.8	70.8
OASPL	68.7	70.2	75.0	80.9	82.4	84.8	85.2	85.1	73.3	69.5	69.2
PNL	80.7	80.8	81.6	84.1	84.6	89.7	89.6	89.0	81.8	80.7	80.7
PNLT	80.7	80.8	81.6	84.1	84.6	89.7	89.6	89.0	81.8	80.7	80.7

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VI

NOISE LEVEL FREQUENCY SPECTRA TIME HISTORY

BELL 206 L

OCTOBER 14 1976

EVENT 76, 145 MPH FLY BY, CENTERLINE MIC. (SOFT SITE)

1/3 OCTAVE FREQUENCY BAND VS TIME (SECONDS)

(DB RE 20 MICRO PA)

BAND	-10.5	-7.5	-4.5	-1.5	0	1.5	4.5	7.5	10.5	11.0
17	63.8	76.5	77.0	73.2	64.5	63.6	71.8	75.7	72.9	70.1
18	65.6	75.6	75.8	69.8	60.4	59.3	68.2	71.0	68.4	64.7
19	65.0	76.8	77.0	65.5	68.8	64.0	67.8	71.1	66.9	64.2
20	65.5	76.6	77.5	64.3	67.5	60.7	63.3	68.9	64.2	61.0
21	62.0	72.7	70.0	62.1	65.6	64.8	60.7	68.1	62.1	60.4
22	58.7	69.9	61.3	65.5	74.8	69.7	57.9	63.0	57.9	56.3
23	55.5	65.5	67.8	76.4	74.9	62.5	61.9	59.7	56.8	55.9
24	53.5	59.8	64.1	65.4	72.5	66.0	66.5	58.2	56.4	56.0
25	54.0	64.4	72.9	71.0	69.1	70.0	64.9	58.7	55.2	55.0
26	57.2	67.5	70.7	71.3	71.3	64.5	59.5	59.4	55.0	55.0
27	56.5	66.6	63.9	66.6	69.3	63.1	60.5	59.6	56.1	55.0
28	53.5	61.1	66.1	66.3	67.0	64.6	59.1	55.8	56.2	55.2
29	53.5	57.0	63.8	65.9	66.5	65.1	56.2	55.7	55.0	55.0
30	53.5	57.8	59.8	65.6	66.4	62.4	56.1	55.0	55.0	55.0
31	53.5	55.3	57.3	63.8	64.8	60.5	55.1	55.0	55.0	55.0
32	53.5	55.0	56.8	62.3	63.6	59.2	55.0	55.0	55.0	55.0
33	53.5	55.0	55.1	61.0	60.7	57.4	55.0	55.0	55.0	55.0
34	53.5	55.0	55.0	58.3	58.0	55.2	55.0	55.0	55.0	55.0
35	53.5	55.0	55.0	55.0	55.7	55.0	55.0	55.0	55.0	55.0
36	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
37	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
38	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
39	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
40	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
A	60.0	69.9	72.6	74.7	75.8	71.4	66.0	64.3	61.0	59.7
D	70.3	77.4	78.8	79.9	80.8	76.8	74.1	74.4	72.4	71.6
OASPL	74.2	83.8	84.2	83.2	83.6	79.1	80.9	84.9	80.5	78.4
PNL	80.2	85.9	87.4	88.3	88.4	85.0	82.7	82.8	81.7	81.2
PNLT	80.2	85.9	87.4	88.3	88.4	85.0	82.7	82.8	81.7	81.2

LOWER LIMIT OF ANALYSIS SYSTEM= 55.0

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 14, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.8	76.0	73.7	74.7	.6
15	66.6	69.7	62.6	66.2	1.9
16	74.1	76.0	72.1	74.0	.9
17	71.5	73.0	70.1	71.4	.8
18	70.6	72.3	68.7	70.5	.9
19	72.9	75.0	69.0	72.6	1.6
20	66.9	68.2	64.7	66.7	1.1
21	61.9	64.0	58.7	61.7	1.4
22	70.0	73.3	65.4	69.7	1.7
23	65.8	68.6	62.6	65.5	1.5
24	72.4	75.6	68.6	72.1	1.5
25	69.3	72.8	66.1	69.0	1.7
26	67.7	72.2	63.1	67.0	2.4
27	68.5	73.3	62.9	67.5	2.8
28	66.4	71.4	60.0	65.2	3.4
29	64.5	71.0	56.3	62.7	4.1
30	62.1	69.2	53.9	60.1	4.0
31	60.4	68.2	52.7	58.1	4.1
32	57.6	65.2	49.1	55.5	3.9
33	56.1	63.1	48.6	54.1	3.9
34	52.4	58.8	45.6	50.3	4.1
35	48.8	53.8	45.0	47.4	3.2
36	46.0	49.5	45.0	45.8	1.4
37	45.1	46.0	45.0	45.1	.2
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.9	47.1	46.6	46.9	.2
DBA	73.3	78.5	68.6	72.4	2.5
DBD	78.0	82.2	74.8	77.5	1.9
OASPL	81.4	83.6	80.4	81.3	.8
PNL	85.1	89.0	82.2	84.7	1.7
PNLT	85.1	89.0	82.2	84.7	1.7

275°
(Microphone Location
Relative to Helicopter)

TABLE D-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 15, 45 DEGREES, MICROPHONE 150 METERS WEST

**1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)**

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.7	77.0	74.4	75.6	.7
15	68.0	72.6	63.6	67.5	2.1
16	73.4	75.0	72.1	73.4	.7
17	70.0	71.2	67.7	69.9	.8
18	69.1	71.4	66.0	69.0	1.2
19	74.3	76.8	70.5	74.1	1.4
20	66.7	68.5	64.2	66.5	1.2
21	64.0	65.9	61.3	63.9	1.2
22	69.8	72.7	66.1	69.5	1.7
23	66.5	68.9	62.4	66.2	1.6
24	72.5	76.0	67.2	72.0	2.3
25	71.4	74.9	63.7	70.7	2.8
26	69.7	74.6	62.7	68.8	2.9
27	69.3	74.7	62.4	68.0	3.3
28	68.9	73.6	61.3	67.3	3.8
29	67.7	73.4	59.1	65.5	4.5
30	64.0	70.8	54.7	61.4	4.5
31	62.1	68.6	53.6	59.4	4.5
32	59.3	66.2	51.1	56.6	4.5
33	57.5	64.3	48.9	54.8	4.4
34	52.8	59.5	45.2	50.5	4.1
35	49.6	56.2	45.0	48.1	3.2
36	46.5	51.6	45.0	46.0	1.9
37	45.5	48.5	45.0	45.4	.9
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.9	47.3	46.6	46.8	.2
DBA	74.9	79.8	68.2	73.8	3.2
DBD	79.3	83.6	73.9	78.5	2.7
OASPL	82.1	84.3	79.9	81.9	1.3
PNL	86.0	89.9	80.8	85.3	2.5
PNLT	86.0	89.9	80.8	85.3	2.5

*225°
(Microphone Location)
(Relative to Helicopter)*

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 16, 90 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.2	78.8	73.9	76.0	1.2
15	69.4	72.4	64.5	68.9	2.3
16	75.0	76.6	72.1	74.9	1.0
17	72.9	74.9	69.7	72.7	1.5
18	71.6	74.5	67.8	71.2	1.8
19	75.3	77.1	73.4	75.2	.8
20	68.2	71.4	64.7	67.8	1.9
21	65.0	66.9	62.2	64.8	1.2
22	71.4	74.2	67.9	71.1	1.7
23	66.6	68.8	61.8	66.3	1.9
24	72.2	74.5	66.8	71.8	2.0
25	71.0	73.4	65.9	70.5	2.1
26	68.0	71.4	64.4	67.5	2.0
27	67.4	72.0	61.5	66.6	2.6
28	65.7	67.4	60.7	64.7	2.8
29	63.3	68.2	56.5	62.3	3.1
30	59.4	64.8	52.6	57.9	3.6
31	57.0	61.7	50.9	55.5	3.6
32	54.1	59.2	48.0	52.7	3.5
33	53.0	58.2	47.3	51.7	3.3
34	50.5	56.1	45.2	49.1	3.4
35	49.1	54.8	45.0	47.9	3.0
36	46.6	51.6	45.0	46.1	1.9
37	45.3	47.0	45.0	45.2	.6
38	45.0	45.0	45.0	45.0	.0
39	45.8	46.4	45.0	45.7	.4
40	47.0	47.6	46.2	47.0	.4
DBA	72.8	76.3	68.9	72.3	2.1
DBD	78.1	80.9	74.6	77.8	1.7
OASPL	82.4	84.0	80.7	82.3	1.0
PNL	84.9	87.5	81.7	84.6	1.7
PNLT	84.9	87.5	81.7	84.6	1.7

180°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1973

EVENT 17, 135 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.1	78.0	74.3	76.0	.9
15	67.9	70.2	65.8	67.7	1.4
16	76.4	77.9	74.6	76.4	.8
17	74.4	76.3	72.2	74.2	1.1
18	72.8	74.6	69.6	72.6	1.4
19	71.9	74.0	69.6	71.7	1.3
20	67.8	71.8	64.8	67.5	1.5
21	67.5	69.5	64.5	67.3	1.3
22	70.6	72.1	69.3	70.6	.8
23	70.8	72.4	67.6	70.6	1.4
24	73.8	76.4	71.1	73.6	1.3
25	74.8	77.9	68.9	74.1	2.6
26	75.0	78.3	67.8	74.1	3.3
27	76.0	81.1	67.9	74.9	3.4
28	74.3	78.7	66.5	73.2	3.1
29	71.4	76.5	63.9	70.1	3.1
30	66.7	71.7	58.1	65.3	3.9
31	64.9	71.4	55.4	63.0	4.4
32	60.9	66.8	52.6	59.1	4.0
33	59.3	65.4	51.8	57.7	3.8
34	55.5	62.2	47.4	53.5	4.2
35	51.8	57.4	45.0	50.4	3.5
36	47.5	52.6	45.0	46.9	2.1
37	45.5	48.5	45.0	45.4	.9
38	45.0	45.4	45.0	45.0	.1
39	45.0	45.1	45.0	45.0	.0
40	47.0	47.4	46.6	47.0	.2
DBA	79.2	82.4	72.5	78.3	2.9
DBD	82.9	86.3	77.5	82.2	2.5
OASPL	84.9	87.5	81.9	84.6	1.5
PNL	89.8	92.9	84.8	89.1	2.4
PNLT	89.8	92.9	84.8	89.2	2.4

135°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 18, 180 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.9	75.8	73.6	74.9	.5
15	64.2	67.6	62.7	63.9	1.3
16	73.4	74.6	71.7	73.4	.7
17	71.1	72.8	68.4	70.9	1.4
18	70.2	72.7	67.1	70.0	1.3
19	76.1	79.4	71.9	75.6	2.1
20	68.8	71.1	65.6	68.5	1.6
21	65.0	68.4	61.5	64.7	1.5
22	75.8	78.5	72.7	75.5	1.5
23	67.3	69.1	64.7	67.1	1.4
24	71.7	73.9	68.2	71.5	1.6
25	70.1	73.9	63.8	69.7	1.9
26	68.9	72.1	64.0	68.5	1.9
27	59.3	72.7	63.7	68.9	2.1
28	68.6	71.8	62.5	68.1	2.3
29	66.1	70.3	57.6	65.0	3.2
30	62.8	68.8	55.0	61.1	3.7
31	59.3	64.9	52.8	57.8	3.5
32	55.5	61.5	49.6	54.3	3.0
33	53.5	59.6	47.1	52.3	3.1
34	49.3	54.8	45.0	48.4	2.6
35	46.9	51.1	45.0	46.5	1.8
36	45.2	46.2	45.0	45.2	.3
37	45.0	45.2	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	47.0	47.7	46.7	47.0	.2
DBA	74.2	77.6	68.8	73.8	2.0
DBD	79.1	81.9	75.3	78.9	1.5
OASPL	82.8	84.7	80.4	82.7	1.0
PNL	85.9	88.6	82.2	85.6	1.5
PNLT	85.9	88.6	82.2	85.6	1.5

90°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 19, 225 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.0	77.5	74.8	76.0	.7
15	66.3	69.0	63.3	65.9	2.0
16	75.0	76.5	73.4	74.9	.9
17	72.2	73.7	70.9	72.1	.7
18	69.9	72.1	67.4	69.7	1.1
19	73.2	76.0	70.3	73.0	1.4
20	66.4	68.6	64.1	66.2	1.2
21	63.8	65.6	60.7	63.6	1.2
22	67.0	68.7	64.8	66.8	1.1
23	64.7	66.9	62.5	64.5	1.1
24	67.1	69.7	63.0	66.9	1.5
25	65.7	67.6	61.5	65.5	1.4
26	64.3	67.3	58.2	63.7	2.6
27	64.5	67.2	54.2	63.1	3.9
28	61.5	64.4	55.2	60.7	3.0
29	55.9	59.1	51.0	55.3	2.3
30	52.7	54.1	50.3	52.6	1.2
31	51.0	54.1	48.1	50.8	1.5
32	48.0	49.8	45.7	47.8	1.3
33	46.8	48.8	45.0	46.6	1.1
34	45.1	45.7	45.0	45.1	.3
35	45.0	45.0	45.0	45.0	.0
36	45.0	45.0	45.0	45.0	.0
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	46.8	47.2	46.1	46.7	.3
DBA	68.0	70.1	64.4	67.7	1.6
DBD	73.9	75.5	72.2	73.8	1.0
OASPL	80.3	81.5	79.5	80.3	.5
PNL	81.0	82.1	79.0	80.9	.9
PNLT	81.1	82.4	79.0	81.0	.9

45°
(Microphone Location)
(Relative to Helicopter)

TABLE D-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 20, 270 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	77.1	81.2	73.6	76.8	1.7
15	73.3	78.4	67.5	72.2	3.1
16	74.9	77.7	72.1	74.5	1.7
17	70.9	74.0	67.1	70.6	1.8
18	69.3	72.6	63.2	68.8	2.2
19	70.9	72.8	68.3	70.7	1.2
20	65.4	69.3	62.0	65.0	1.9
21	62.0	66.1	58.3	61.6	1.8
22	67.1	69.6	64.3	66.9	1.5
23	61.7	64.7	58.9	61.3	2.0
24	64.1	67.3	58.4	63.3	2.8
25	64.0	65.8	59.7	63.6	1.9
26	62.0	65.4	55.7	60.8	3.2
27	61.9	65.6	54.1	60.8	3.5
28	59.3	65.7	51.1	57.5	3.9
29	55.3	61.2	48.8	54.0	3.4
30	52.0	56.3	47.3	51.2	2.7
31	49.7	54.3	46.0	49.0	2.5
32	46.8	51.2	45.0	46.4	1.7
33	46.2	49.9	45.0	46.0	1.3
34	45.1	46.3	45.0	45.1	.3
35	45.0	45.2	45.0	45.0	.0
36	45.0	45.0	45.0	45.0	.0
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	47.0	47.4	46.7	47.0	.2
DBA	66.0	68.7	62.3	65.5	2.2
DBD	72.4	74.2	70.2	72.2	1.3
CASPL	80.7	84.2	78.3	80.4	1.5
PNL	79.3	81.4	77.3	79.1	1.3
PNLT	79.3	81.4	77.3	79.1	1.3

0°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 21, 315 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.5	77.4	72.3	74.3	1.1
15	67.7	72.9	61.7	66.8	2.7
16	73.8	75.0	72.9	73.8	.6
17	69.8	71.4	67.2	69.7	1.0
18	68.7	71.0	66.0	68.5	1.3
19	72.7	77.2	67.8	71.8	2.8
20	65.4	68.5	62.3	65.0	1.7
21	60.7	64.2	56.9	60.4	1.7
22	64.1	67.2	60.4	63.6	2.1
23	60.1	63.2	57.5	59.8	1.5
24	64.7	68.0	60.2	64.1	2.4
25	63.8	66.5	61.1	63.3	1.9
26	60.9	63.8	56.9	60.5	2.0
27	59.4	62.4	54.6	58.8	2.2
28	57.4	59.5	53.3	56.9	2.0
29	55.8	58.7	52.0	55.4	1.9
30	52.2	56.4	48.6	51.6	2.2
31	51.0	54.8	46.5	50.1	2.7
32	48.9	53.8	45.0	47.8	2.9
33	47.8	53.4	45.0	46.9	2.6
34	45.7	48.8	45.0	45.6	1.1
35	45.2	46.9	45.0	45.2	.4
36	45.0	45.0	45.0	45.0	.0
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	47.1	47.3	46.8	47.1	.1
DBA	65.6	68.3	62.6	65.2	1.9
DBD	71.8	74.4	69.6	71.5	1.5
OASPL	79.0	80.8	77.4	78.9	1.0
PNL	79.0	81.6	76.9	78.7	1.6
PNLT	79.1	81.6	76.9	78.8	1.6

315°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 14, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	78.1	79.7	76.6	78.0	.7
15	68.7	71.6	65.7	68.4	1.7
16	75.2	76.1	74.2	75.2	.5
17	71.8	73.4	70.2	71.7	.7
18	67.6	69.2	65.1	67.5	.9
19	76.2	79.0	69.7	75.8	2.0
20	69.0	70.6	66.3	68.9	1.2
21	66.6	69.9	63.8	66.4	1.5
22	75.1	77.9	72.4	74.9	1.4
23	71.4	73.4	69.6	71.2	1.2
24	78.8	80.8	74.8	78.6	1.5
25	74.8	77.0	72.0	74.6	1.2
26	74.5	76.5	71.8	74.3	1.2
27	72.3	74.3	69.8	72.1	1.2
28	68.9	71.4	66.3	68.7	1.5
29	66.2	69.7	62.4	65.7	2.2
30	66.2	70.1	61.0	65.5	2.6
31	67.7	71.7	61.6	66.9	2.6
32	66.1	70.5	61.6	65.4	2.4
33	61.4	65.4	58.0	61.0	1.8
34	58.4	62.1	55.1	58.0	1.8
35	54.2	58.1	51.1	53.8	1.8
36	50.1	52.9	47.4	50.0	1.2
37	46.2	48.2	45.1	46.1	.9
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	78.1	80.4	75.4	77.9	1.3
DBD	83.1	85.5	80.7	82.9	1.2
OASPL	85.4	87.2	83.6	85.3	.9
PNL	90.4	92.6	88.1	90.2	1.2
PNLT	90.4	92.6	88.5	90.3	1.2

90°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 15, 45 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	78.1	79.8	77.0	78.0	.6
15	65.1	66.6	63.8	65.1	.7
16	75.7	76.6	74.5	75.6	.5
17	71.7	73.3	68.8	71.6	1.1
18	68.7	70.5	66.0	68.6	1.0
19	75.4	77.3	72.5	75.3	1.2
20	69.1	71.8	66.0	68.8	1.5
21	68.4	70.5	65.9	68.2	1.1
22	74.5	76.4	72.8	74.4	.9
23	72.3	74.3	70.2	72.2	1.0
24	75.5	78.5	73.4	75.4	1.3
25	75.1	77.5	73.1	75.0	1.0
26	75.1	78.0	72.6	75.0	1.3
27	72.7	75.5	69.9	72.5	1.5
28	68.0	71.2	65.5	67.8	1.4
29	65.6	68.6	62.3	65.2	2.0
30	67.7	73.1	61.5	66.5	3.2
31	68.4	72.5	64.1	67.7	2.4
32	66.4	70.3	61.4	65.8	2.3
33	61.3	64.1	57.9	61.0	1.7
34	58.5	62.7	55.2	58.0	2.0
35	54.9	58.2	51.4	54.5	2.0
36	50.9	53.7	47.8	50.6	1.6
37	46.6	48.4	45.0	46.6	.8
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	78.0	81.2	75.8	77.8	1.4
DED	82.7	85.7	81.1	82.5	1.1
OASPL	84.8	87.1	83.6	84.7	.8
PNL	89.9	92.8	88.0	89.7	1.2
PNLT	89.9	92.8	88.0	89.8	1.2

45°
(Microphone Location
Relative to Helicopter)

TABLE D-VII
5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 16, 90 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.6	78.1	75.7	76.6	.6
15	64.3	67.4	62.9	64.2	1.1
16	74.9	76.8	73.7	74.8	.7
17	71.2	73.5	68.8	71.0	1.4
18	68.7	71.1	66.2	68.4	1.5
19	73.7	77.4	70.6	73.1	2.1
20	67.4	71.6	62.7	66.8	2.2
21	64.4	68.2	61.7	64.1	1.7
22	69.8	75.0	65.6	69.2	2.2
23	67.3	69.7	63.7	67.0	1.6
24	72.1	74.8	68.7	71.8	1.6
25	72.4	75.3	68.9	72.1	1.5
26	69.7	71.6	66.0	69.4	1.6
27	67.5	70.0	64.6	67.2	1.5
28	64.3	66.7	61.1	64.0	1.6
29	60.1	62.0	56.8	59.8	1.7
30	57.9	60.9	52.0	56.7	3.2
31	60.9	63.8	52.5	58.7	4.3
32	61.1	63.8	55.7	59.7	3.3
33	58.2	60.6	55.1	57.7	2.0
34	53.9	56.6	51.7	53.6	1.5
35	49.4	52.4	46.4	48.8	2.2
36	46.2	48.8	45.0	46.1	1.2
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	73.2	75.1	70.4	72.9	1.6
DBD	78.7	81.0	76.6	78.5	1.4
OASPL	81.8	84.2	80.3	81.7	1.0
PNL	85.6	88.3	83.1	85.3	1.4
PNLT	85.6	88.3	83.1	85.4	1.4

0°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 17, 135 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.3	77.2	73.4	75.2	.9
15	67.1	71.7	62.7	66.2	2.7
16	74.8	76.3	73.5	74.7	.9
17	70.9	74.7	68.0	70.6	1.5
18	68.2	70.6	66.3	67.9	1.4
19	76.2	78.5	74.3	76.1	1.1
20	67.7	71.0	65.6	67.6	1.2
21	65.2	68.6	62.6	64.9	1.5
22	72.2	74.6	69.1	72.0	1.4
23	69.8	71.6	67.5	69.7	1.3
24	74.5	78.2	71.7	74.2	1.5
25	74.4	78.1	71.1	74.0	1.9
26	73.9	78.2	68.0	73.1	2.7
27	72.6	77.4	65.1	71.6	3.2
28	69.9	75.0	63.5	68.9	3.0
29	67.2	71.1	61.8	66.6	2.3
30	67.9	73.6	59.6	66.3	4.0
31	68.9	73.3	59.1	67.4	4.0
32	68.1	73.8	60.4	66.4	3.9
33	64.3	69.9	59.0	63.1	3.1
34	60.2	64.7	55.6	59.2	2.9
35	54.9	60.0	49.8	53.9	2.9
36	50.3	55.9	46.7	49.4	2.5
37	46.0	49.6	45.0	45.9	1.2
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	78.4	82.5	75.1	77.8	2.2
DBD	82.7	86.8	79.9	82.3	1.8
OASPL	84.0	86.6	80.6	83.9	1.1
PNL	89.7	93.7	86.8	89.2	1.9
PNLT	89.8	94.8	86.8	89.3	2.1

315°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 18, 180 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.9	77.3	73.6	75.9	.8
15	65.9	69.9	63.6	65.6	1.6
16	73.8	75.4	71.7	73.6	1.0
17	70.0	72.3	67.1	69.7	1.4
18	67.3	69.3	64.7	67.1	1.2
19	77.4	79.9	75.0	77.2	1.5
20	67.6	71.0	65.4	67.3	1.5
21	63.8	65.4	61.7	63.7	1.0
22	75.0	77.5	72.4	74.9	1.2
23	69.1	71.2	67.3	68.9	1.1
24	77.7	81.4	72.8	77.0	2.4
25	73.9	76.1	71.3	73.6	1.4
26	74.2	75.9	72.6	74.2	.8
27	73.4	75.8	71.1	73.3	1.1
28	70.7	74.2	68.2	70.4	1.4
29	65.6	67.7	63.6	65.5	1.2
30	62.0	66.7	58.5	61.5	2.0
31	63.0	67.1	58.4	62.3	2.4
32	62.5	64.4	59.3	62.1	1.8
33	59.4	61.1	56.6	59.3	1.2
34	55.8	58.2	52.9	55.6	1.6
35	50.2	52.2	48.1	50.1	1.1
36	46.4	48.6	45.2	46.3	.9
37	45.0	45.4	45.0	45.0	.1
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	77.3	78.9	75.3	77.2	1.0
DBD	82.4	84.1	80.7	82.3	1.0
OASPL	84.6	86.3	81.9	84.5	1.0
PNL	89.2	91.2	87.5	89.0	1.1
PNLT	89.2	91.2	87.5	89.0	1.1

270°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 I

OCTOBER 14 1976

EVENT 19, 225 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	74.2	75.4	71.5	74.1	.9
15	62.3	64.3	60.7	62.2	1.0
16	72.7	74.0	71.2	72.7	.7
17	68.6	69.8	66.5	68.5	.8
18	65.7	66.9	63.3	65.6	.9
19	78.4	81.8	74.0	78.1	1.6
20	67.9	69.7	65.4	67.8	1.0
21	64.3	67.4	62.1	64.1	1.3
22	72.8	76.4	69.2	72.5	1.7
23	70.4	74.2	67.4	70.1	1.4
24	79.3	81.6	76.7	79.1	1.3
25	76.6	79.0	73.3	76.4	1.5
26	76.9	79.2	74.3	76.7	1.2
27	76.3	78.3	73.5	76.2	1.1
28	74.8	76.7	71.8	74.6	1.3
29	68.6	71.7	65.7	68.3	1.5
30	60.6	63.5	56.8	60.2	1.9
31	59.7	64.2	54.8	59.0	2.5
32	61.6	66.4	55.1	60.4	3.1
33	60.6	66.1	52.9	59.6	2.9
34	57.8	61.6	50.6	57.1	2.6
35	51.4	54.8	46.7	50.8	2.4
36	47.0	49.7	45.0	46.7	1.6
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	79.6	81.5	76.9	79.5	1.1
DBD	84.4	86.2	81.9	84.2	1.0
OASPL	85.9	87.4	84.3	85.8	.8
PNL	90.5	91.9	88.3	90.4	1.0
PNLT	90.6	92.5	88.3	90.5	1.0

225°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 20, 270 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	76.0	77.5	75.0	75.9	.6
15	63.6	65.3	62.3	63.5	.9
16	73.8	75.1	72.4	73.7	.7
17	70.8	72.7	68.7	70.8	.9
18	67.0	69.4	66.4	67.8	.8
19	75.5	76.3	74.2	75.4	.7
20	67.5	68.9	65.8	67.4	.9
21	65.2	66.8	62.5	65.1	.8
22	71.9	73.9	69.1	71.7	1.2
23	68.3	70.5	64.9	68.1	1.4
24	73.1	75.3	68.5	72.8	1.7
25	72.6	75.1	68.5	72.2	2.0
26	71.1	73.9	66.3	70.7	2.0
27	70.3	73.4	64.0	69.5	2.8
28	66.9	70.7	60.2	66.2	2.6
29	60.3	63.7	54.2	59.7	2.5
30	55.3	61.7	50.5	54.2	2.8
31	55.2	58.4	49.3	54.2	3.1
32	55.1	59.4	50.3	54.4	2.5
33	53.6	56.9	49.0	53.1	2.2
34	50.6	53.0	47.1	50.3	1.7
35	46.3	48.3	45.0	46.2	1.1
36	45.0	45.2	45.0	45.0	.1
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	73.7	76.6	70.0	73.4	1.7
DBD	78.9	81.2	76.1	78.7	1.4
OASPL	82.4	83.8	80.9	82.3	.8
PNL	85.7	87.8	82.8	85.6	1.3
PNLT	85.6	87.8	82.8	85.6	1.3

180°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

5 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 21, 315 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	75.6	76.9	73.6	75.6	.9
15	67.7	71.9	62.1	66.8	2.7
16	72.3	74.4	69.5	72.2	1.1
17	68.3	70.4	65.4	68.1	1.1
18	64.3	66.7	62.3	64.1	1.2
19	70.3	73.4	65.5	69.9	2.0
20	67.4	69.5	65.0	67.3	1.0
21	65.4	67.1	63.8	65.3	.7
22	70.3	71.7	68.0	70.1	1.3
23	68.2	70.9	66.5	68.1	1.1
24	73.5	75.7	70.6	73.2	1.4
25	73.7	75.5	71.0	73.5	1.2
26	73.0	77.4	70.5	72.7	1.6
27	71.6	76.3	68.0	71.1	2.1
28	68.6	70.9	65.1	68.3	1.7
29	63.3	66.7	58.5	62.7	2.2
30	57.1	60.0	54.1	56.9	1.4
31	57.2	60.4	50.8	56.3	3.0
32	58.3	62.2	51.3	56.9	3.7
33	57.2	61.8	51.6	56.0	3.3
34	54.4	57.6	51.3	53.9	2.0
35	50.6	55.4	45.3	49.8	2.6
36	46.2	49.6	45.0	45.9	1.4
37	45.0	45.2	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	75.1	77.2	73.1	75.0	.8
DBD	80.0	81.5	78.3	79.9	.7
OASPL	82.3	84.0	81.3	82.2	.5
PNL	86.7	88.7	85.1	86.7	.8
PNLT	87.0	89.5	85.1	86.9	.9

135°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 53, 0 DEGREES, MICROPHONE 150 METERS WEST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	79.6	81.8	76.4	79.3	1.6
15	67.0	69.0	64.1	66.8	1.4
16	76.1	78.3	71.8	75.8	1.6
17	74.8	78.2	66.1	74.2	2.5
18	71.1	74.3	64.7	70.7	2.0
19	68.7	70.7	64.2	68.3	1.8
20	64.5	68.5	59.7	63.9	2.3
21	61.2	65.0	55.0	60.4	2.7
22	66.7	68.3	64.6	66.6	1.0
23	65.5	67.2	63.3	65.4	1.0
24	70.4	72.2	66.1	70.1	1.4
25	65.4	68.3	60.8	65.0	1.8
26	62.3	65.8	58.0	61.9	1.9
27	68.4	71.4	63.4	68.0	2.0
28	64.0	67.6	59.6	63.7	1.8
29	66.5	70.5	62.0	66.0	2.2
30	64.3	68.9	59.6	63.7	2.3
31	63.2	68.3	58.4	62.6	2.2
32	60.3	65.0	55.9	59.7	2.3
33	57.4	62.6	52.9	56.7	2.4
34	52.0	56.9	48.2	51.5	2.1
35	47.8	52.1	45.0	47.4	1.6
36	45.1	46.3	45.0	45.1	.3
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	47.1	47.5	46.4	47.1	.3
DBA	72.9	76.5	69.3	72.6	1.6
DBD	77.1	80.4	74.0	76.9	1.4
OASPL	81.7	83.6	79.4	81.6	1.1
PNL	84.3	87.2	81.3	84.1	1.3
PNLT	84.5	87.2	81.3	84.3	1.4

270°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 53, 0 DEGREES, MICROPHONE 150 METERS EAST

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	84.0	86.3	82.0	83.9	1.1
15	68.9	71.5	66.6	68.7	1.4
16	73.7	77.5	68.0	72.9	2.8
17	75.7	77.6	71.6	75.4	1.4
18	73.3	77.4	68.1	72.6	2.5
19	69.7	71.7	66.4	69.5	1.2
20	65.8	68.8	61.6	65.4	1.7
21	64.2	68.2	59.0	63.7	2.2
22	71.0	73.6	67.9	70.7	1.5
23	67.7	69.4	65.2	67.5	1.3
24	70.2	72.6	65.8	70.0	1.6
25	62.3	65.5	59.5	62.0	1.4
26	71.0	73.2	68.3	70.8	1.3
27	68.7	71.4	65.5	68.4	1.5
28	69.8	71.4	67.0	69.7	1.2
29	67.9	70.4	64.4	67.6	1.5
30	66.5	69.2	63.0	66.2	1.6
31	64.6	68.0	60.9	64.2	1.8
32	61.5	64.6	58.8	61.2	1.6
33	57.3	60.5	53.9	57.0	1.6
34	54.1	56.7	50.9	53.9	1.4
35	49.7	51.9	47.4	49.5	1.2
36	45.7	47.2	45.0	45.7	.7
37	45.0	45.0	45.0	45.0	.0
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	75.0	77.1	72.4	74.8	1.3
DBD	78.9	80.3	76.3	78.8	1.2
OASPL	83.9	85.5	81.8	83.8	.9
PNL	86.3	88.0	84.1	86.1	1.1
PNLT	86.3	88.0	84.1	86.2	1.1

90°
(Microphone Location
Relative to Helicopter)

TABLE D-VII

500 FOOT HOVER TEST

1/3 OCTAVE NOISE LEVEL FREQUENCY SPECTRA

BELL 206 L

OCTOBER 14 1976

EVENT 53, 0 DEGREES, CENTERLINE MICROPHONE (SOFT SITE)

1/3 OCTAVE BAND VS LEVEL (AVE OVER 19 SECONDS)
(DB RE 20 MICRO PA)

BAND	ENERGY AVERAGE	MAX	MIN	ARITH. AVERAGE	STD DEV
14	80.5	83.8	76.4	80.0	2.1
15	71.9	74.7	68.5	71.6	1.6
16	84.6	87.3	80.9	84.3	1.6
17	69.1	73.4	63.5	68.4	2.4
18	66.5	71.2	62.2	65.9	2.2
19	67.3	72.0	64.8	67.0	1.7
20	69.2	74.8	65.7	68.8	1.9
21	70.1	73.8	68.2	69.8	1.3
22	74.9	76.8	73.3	74.8	.8
23	66.8	69.0	64.9	66.7	1.1
24	68.6	70.8	66.3	68.4	1.3
25	72.1	73.5	69.6	72.0	.9
26	70.5	72.7	68.7	70.3	1.1
27	70.5	72.6	67.0	70.3	1.4
28	70.4	71.7	67.5	70.3	.9
29	68.8	69.9	66.7	68.7	.9
30	66.4	67.8	63.9	66.3	1.0
31	64.4	65.7	62.3	64.3	.9
32	63.3	64.9	61.1	63.2	.9
33	60.7	63.0	58.8	60.6	1.0
34	56.9	58.6	55.1	56.8	.9
35	53.0	55.0	51.1	52.9	1.0
36	48.1	50.5	46.3	48.0	1.0
37	45.0	45.2	45.0	45.0	.1
38	45.0	45.0	45.0	45.0	.0
39	45.0	45.0	45.0	45.0	.0
40	45.0	45.0	45.0	45.0	.0
DBA	76.2	77.7	74.7	76.2	.8
DRD	80.6	81.7	79.3	80.6	.6
OASPL	85.7	87.5	83.9	85.6	1.1
PNL	87.2	88.4	85.8	87.1	.7
PNLT	87.2	88.4	85.8	87.1	.7

(Helicopter Located
Directly Overhead)

TABLE D-VIII

Helicopter Noise Level Data
BELL 206L OCTOBER 14, 1976

max RMS Noise Level - dBA re 20 μ Pa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST		MICROPHONE OFFSET TO THE EAST	
		150M	75M	75M	150M
5 FE. HOVER 0°	14	75.0	88.0	84.5	80.0
	22	76.0	88.5	86.8	83.0
		(270°)		(90°)	
5 FE. HOVER 45°	15	79.5	90.5	85.0	81.5
	23	75.0	88.5	85.5	81.8
		(225°)		(45°)	
5 FE. HOVER 90°	16	78.5	86.3	81.5	77.0
	24	78.0	86.5	81.0	76.0
		(180°)		(0°)	
5 FE. HOVER 135°	17	82.3	90.0	86.0	82.5
	25	86.0	95.0	85.0	78.3
		(135°)		(315°)	
5 FE. HOVER 180°	18	77.8	87.3	83.5	79.5
		(90°)		(270°)	
5 FE. HOVER 225°	19	78.5	88.0	89.0	81.0
		(45°)		(225°)	
5 FE. HOVER 270°	20	68.8	85.8	87.0	77.5
		(0°)		(180°)	
5 FE. HOVER 315°	21	72.8	85.8	87.0	82.5
		(315°)		(135°)	
500 FE. HOVER 0°	52	77.5	81.1 *	77.5 *	83.3
	53	76.5	78.0	78.8 *	77.0
		(270°)		(90°)	
500 FE. HOVER					

* microphone at centerline

TABLE D-VIII
Helicopter Noise Level Data
BELL 206 L

OCTOBER 14, 1976

MAX RMS Noise Level - dBA re 20 μ Pa

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST		MICROPHONE OFFSET TO THE EAST	
		150M	CENTER LINE	CENTER LINE	150M
3° GLIDE SLOPE		—	—	—	—
6° GLIDE SLOPE	46 47 49	73.8 78.5 81.3	76.8 75.8 78.5	76.8 75.0 78.2	71.0 72.0 74.8
9° GLIDE SLOPE	54 55	76.5 77.3	76.8 76.0	75.8 75.8	73.0 71.5
70 MPH LEVEL FLYOVER	59 60 61	74.0 72.3 74.3	79.0 75.8 79.0	79.0 76.8 79.0	74.5 75.0 72.3
106 MPH LEVEL FLYOVER	63 65 66	73.3 73.0 73.3	75.5 74.8 74.8	76.3 76.3 74.0	73.0 74.0 73.0
118 MPH LEVEL FLYOVER	67 68 69 70	75.5 73.8 73.8 72.8	81.3 75.5 78.0 78.0	83.5 74.3 78.0 76.0	73.3 73.8 73.0 74.5

TABLE D-VIII
Helicopter Noise Level Data

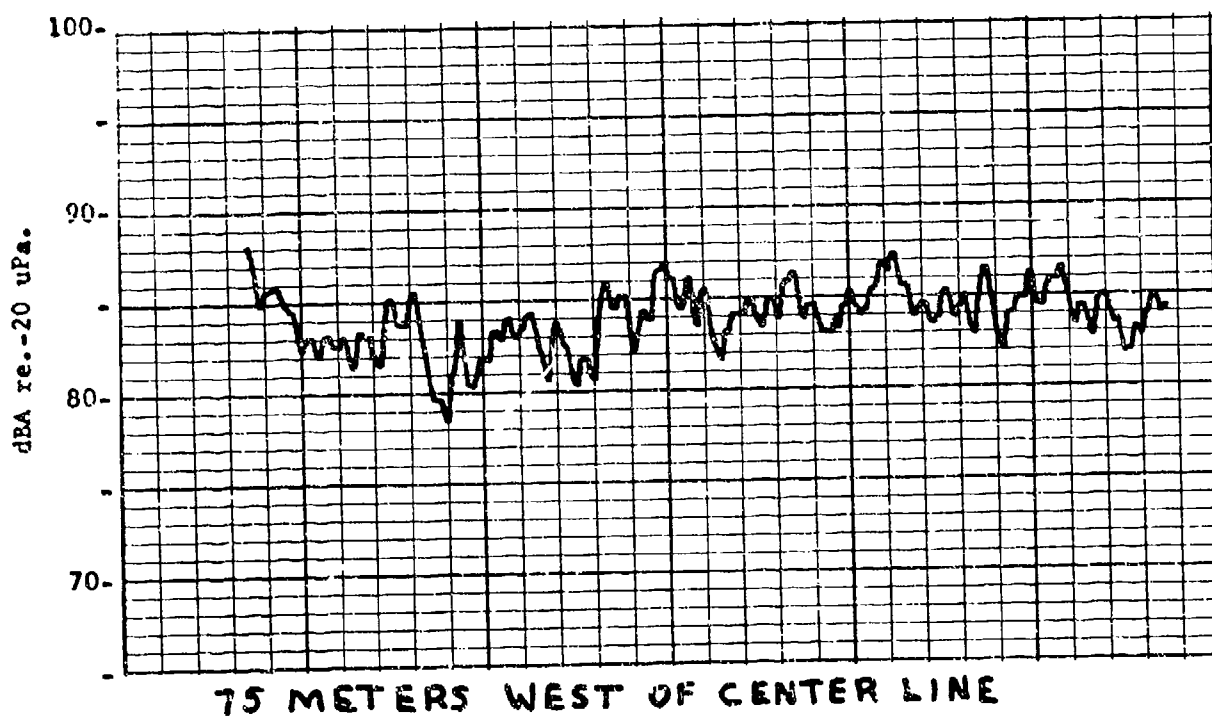
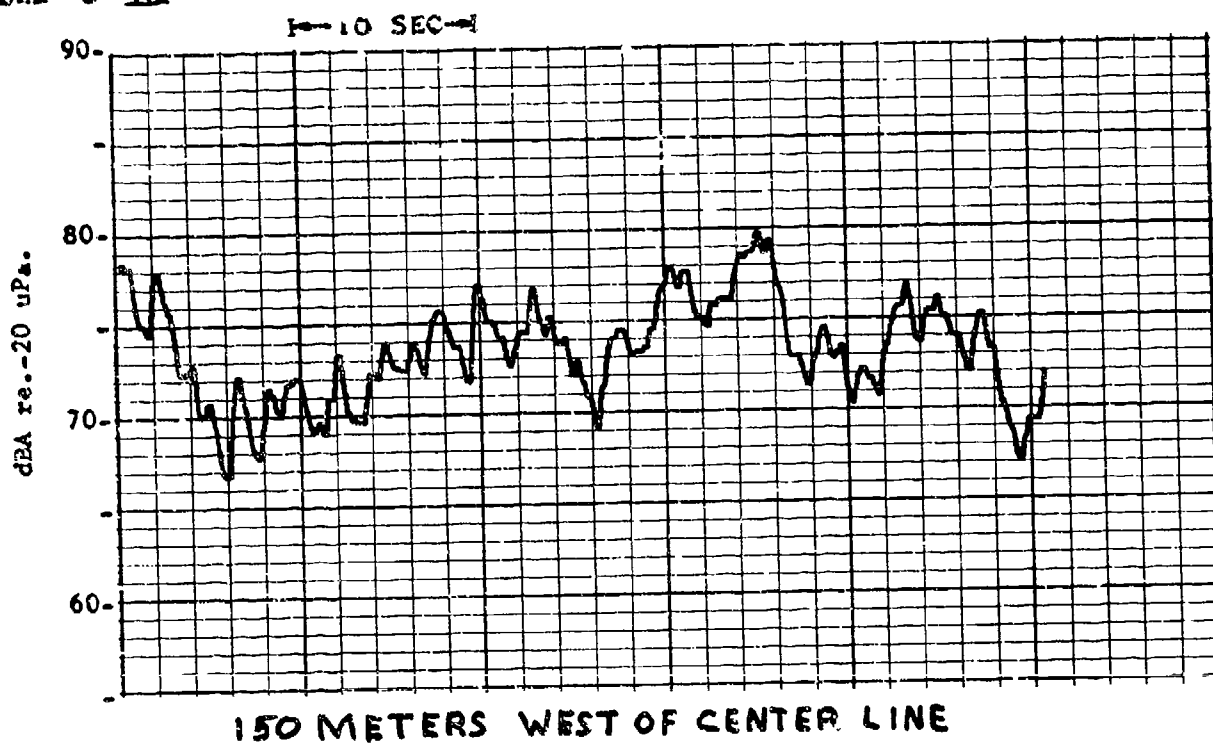
BELL 206-L

OCTOBER 14, 1976

max. RMS Noise Level - dBA re 20 μ P_a

HELICOPTER OPERATION	RUN NUMBER	MICROPHONE OFFSET TO THE WEST 150M CENTER LINE		MICROPHONE OFFSET TO THE EAST CENTER LINE 150M	
130 MPH LEVEL FLYOVER	71	76.0	75.8	75.3	74.0
	72	76.8	76.3	74.5	72.3
	73	75.0	75.0	77.3	74.8
145 MPH LEVEL FLYOVER	74	75.5	76.8	77.3	76.0
	76	75.0	77.5	77.3	76.0
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					
LEVEL FLYOVER					

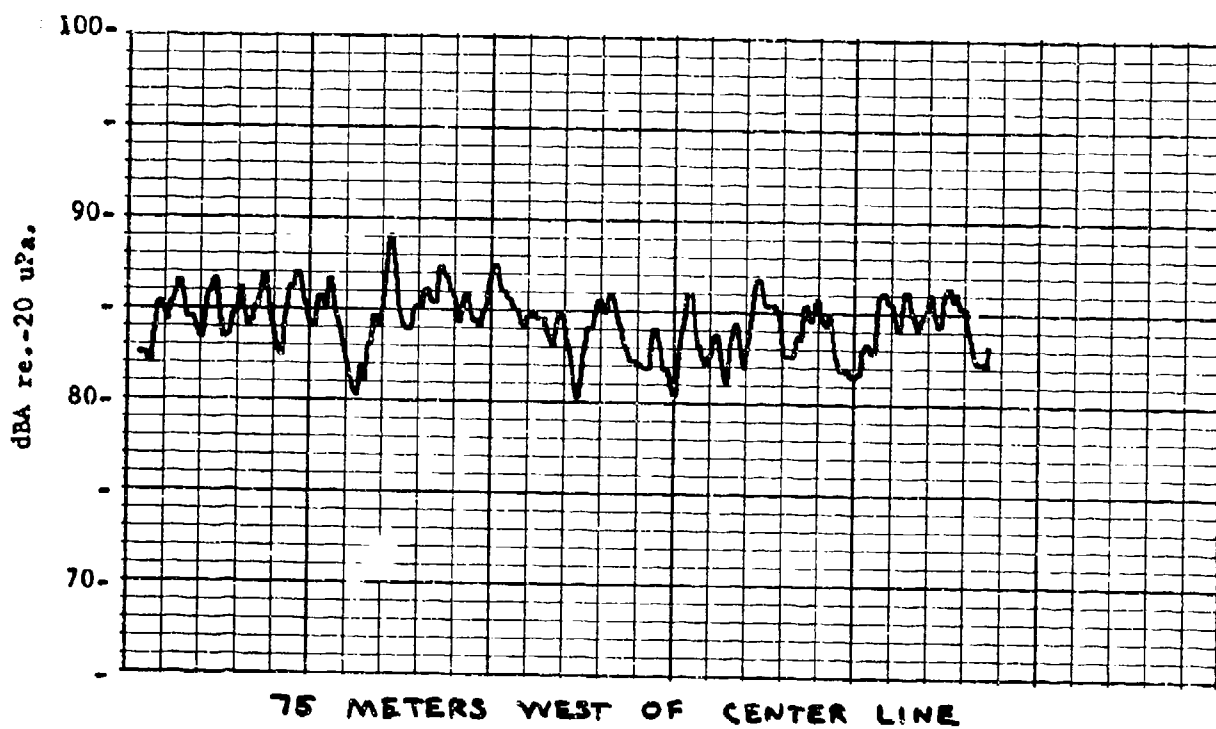
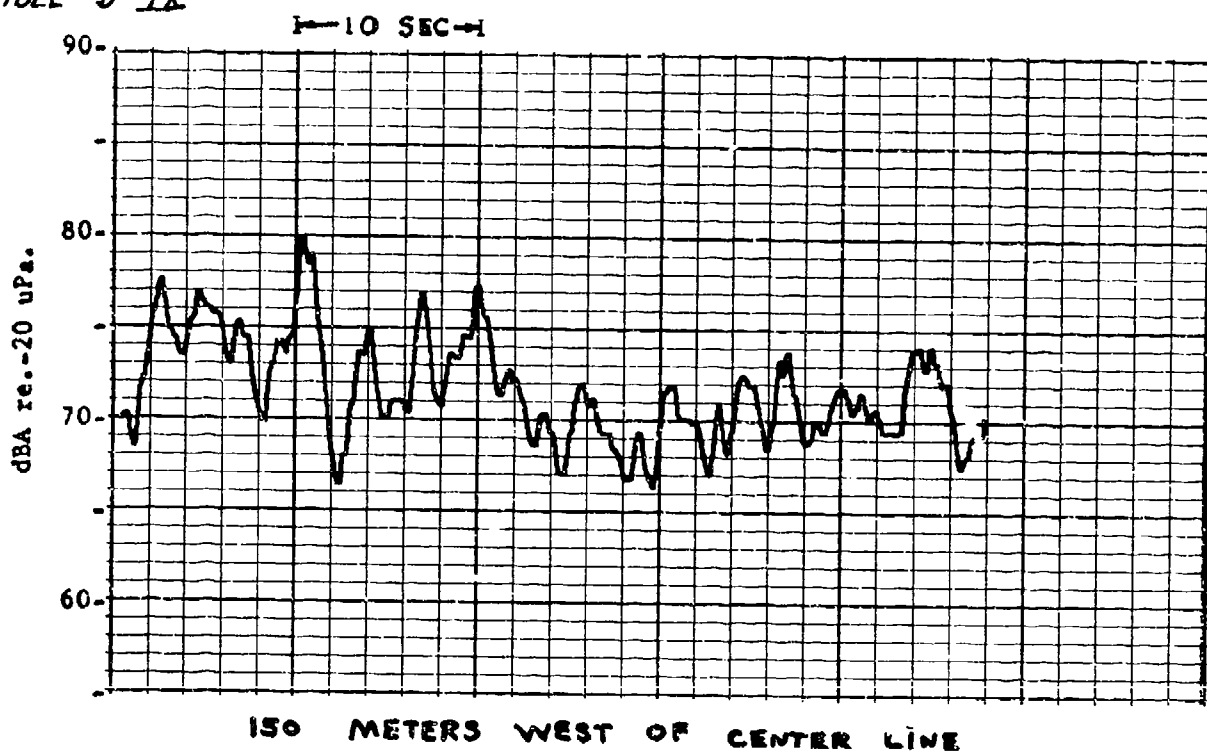
TABLE D-IX



NOISE LEVEL TIME HISTORIES
 BELL 206-L HELICOPTER
 90° HOVER - 5 FT

RUN 16

TABLE D-IX

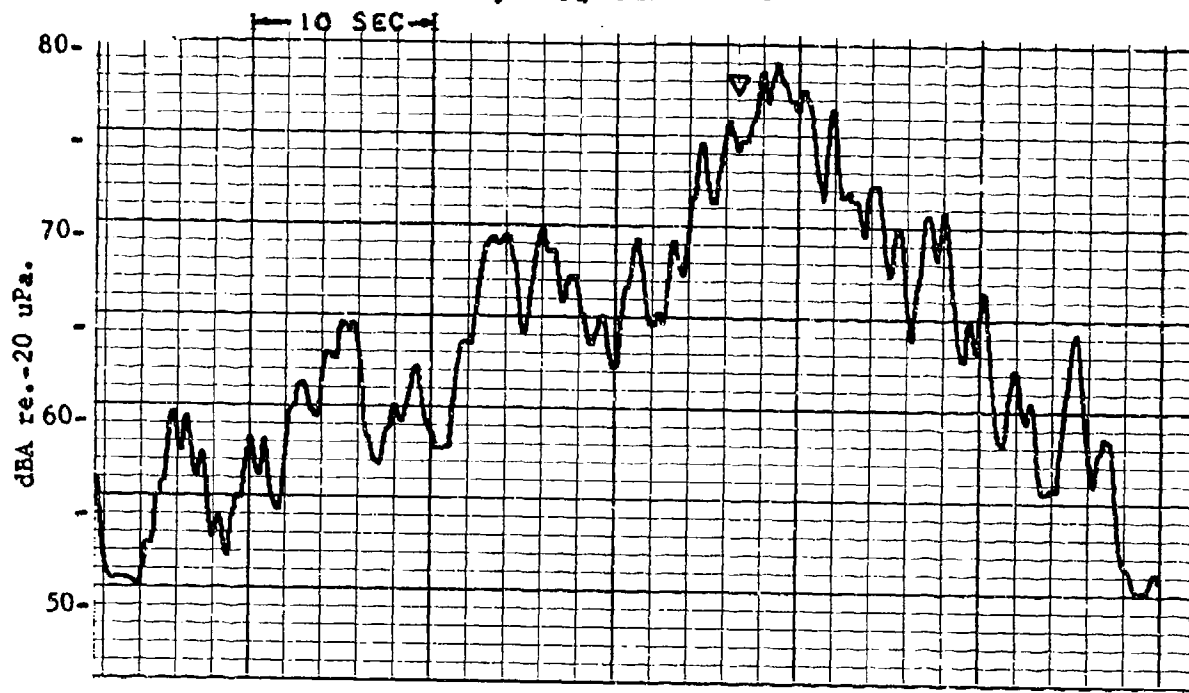


NOISE LEVEL TIME HISTORIES
BELL 206 L HELICOPTER
180° HOVER - 5 FT.

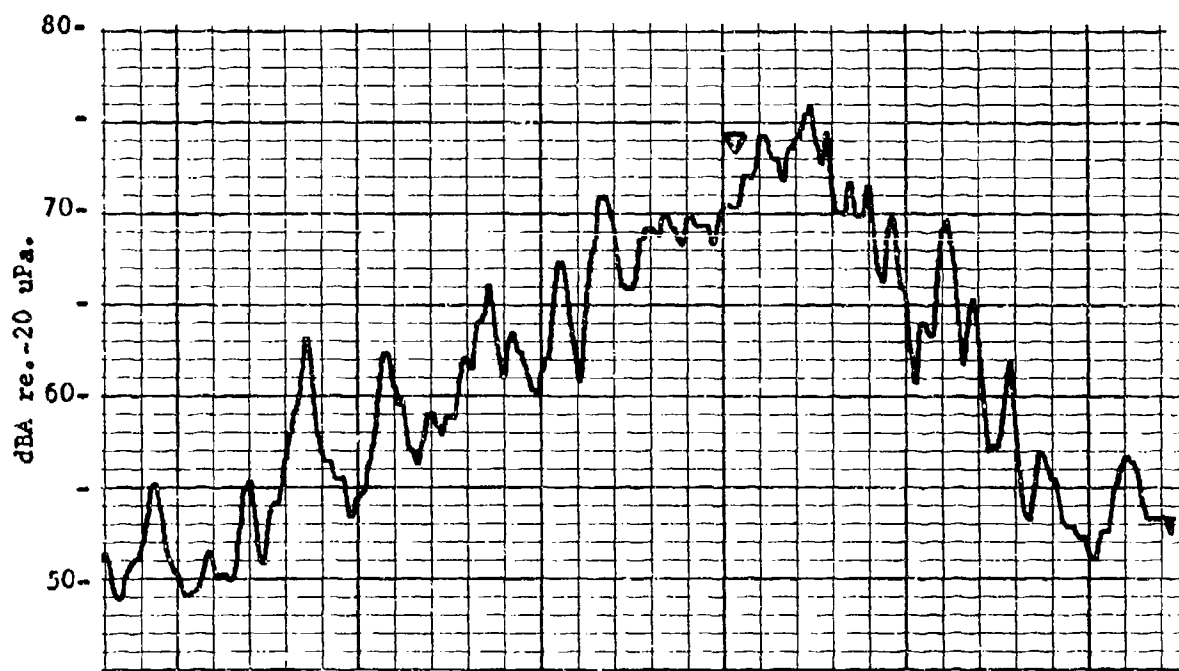
RUN 18

TABLE D-IX

▽ = CENTER CROSSING



150 METERS WEST OF FLIGHT PATH

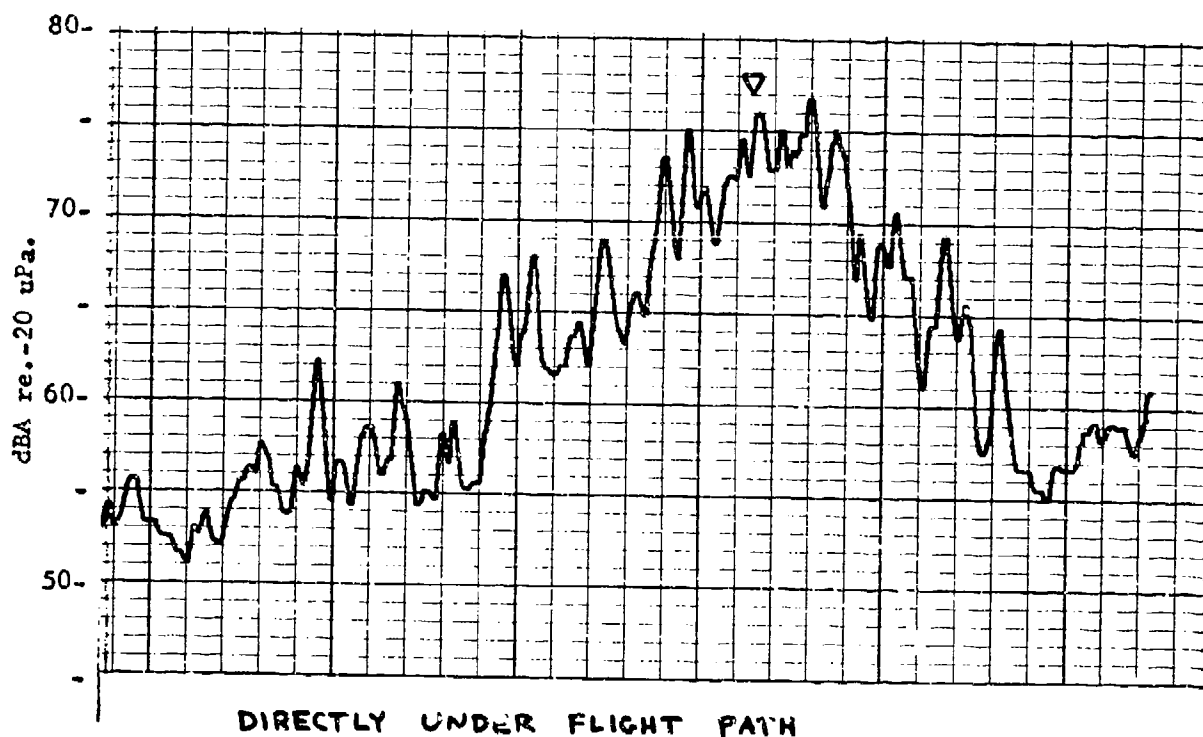
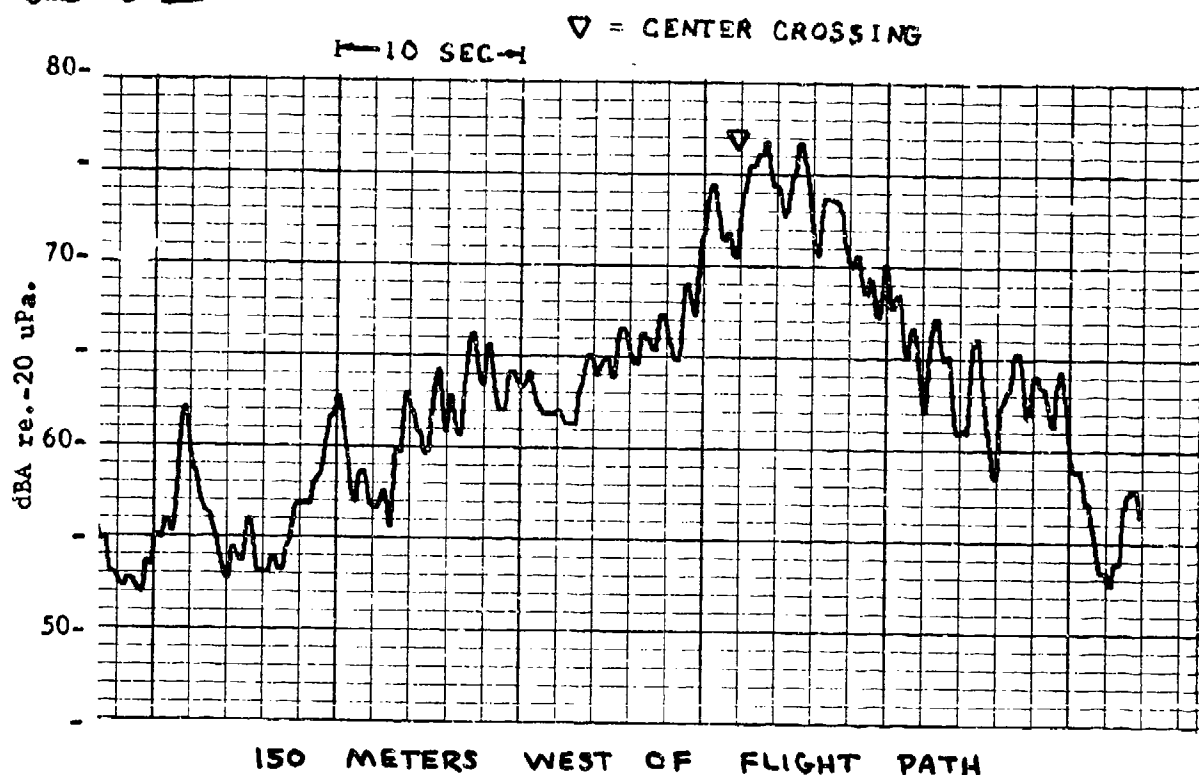


DIRECTLY UNDER FLIGHT PATH

NOISE LEVEL TIME HISTORIES
BELL 206 L HELICOPTER
6° APPROACH

RUN 47

TABLE D-IX

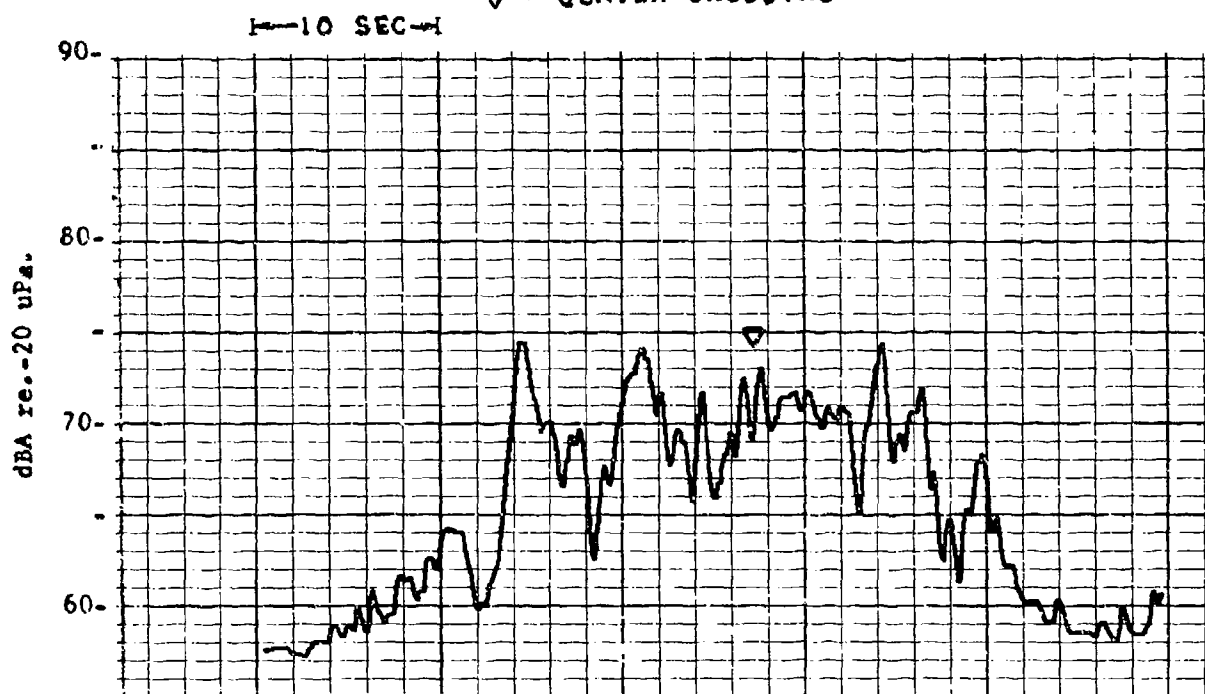


NOISE LEVEL TIME HISTORIES
BELL 206 L HELICOPTER
9° APPROACH

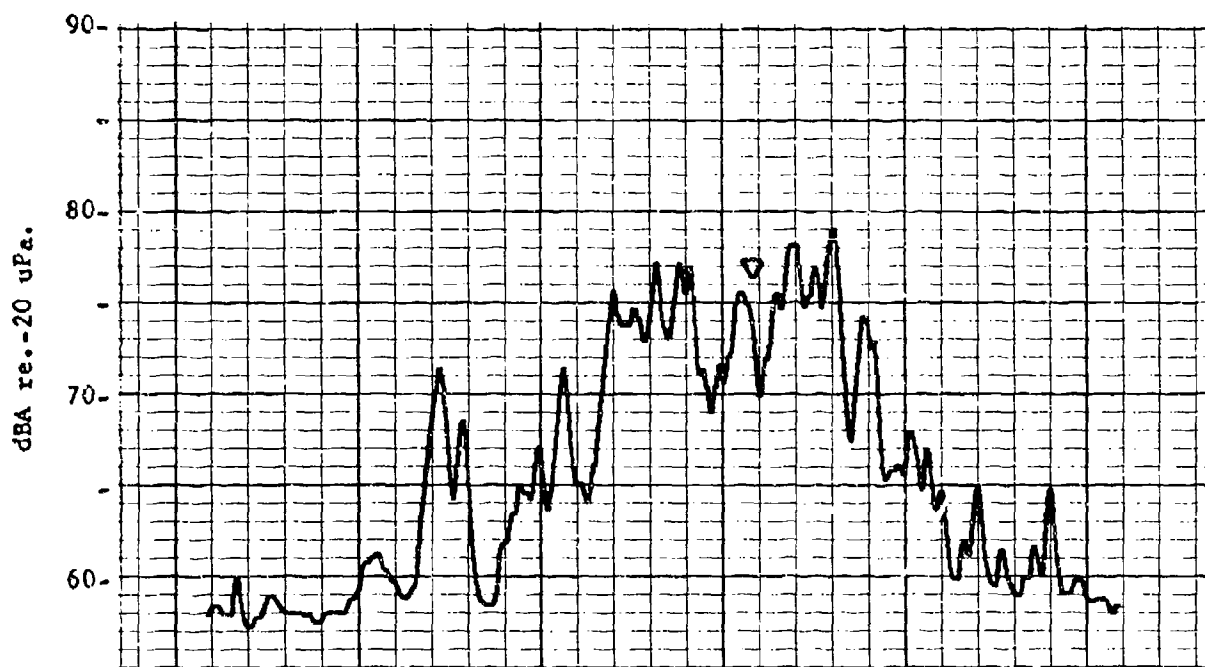
RUN 54

TABLE D-IX

▽ = CENTER CROSSING



150 METERS WEST OF FLIGHT PATH



DIRECTLY UNDER FLIGHT PATH

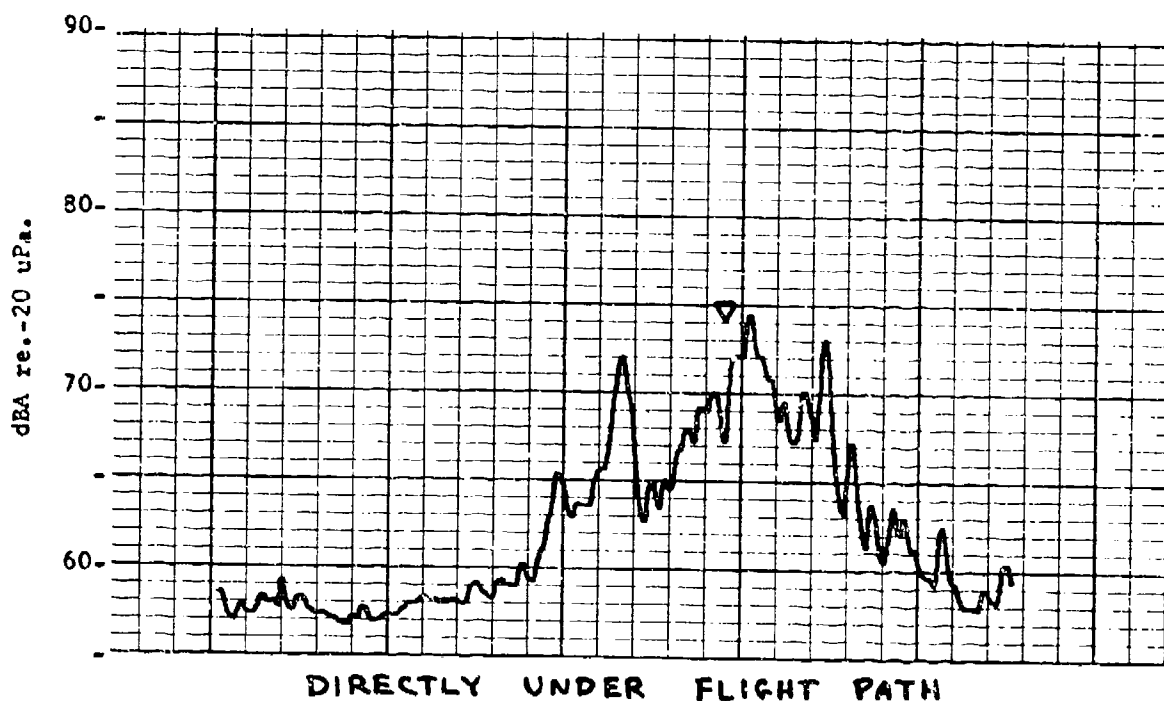
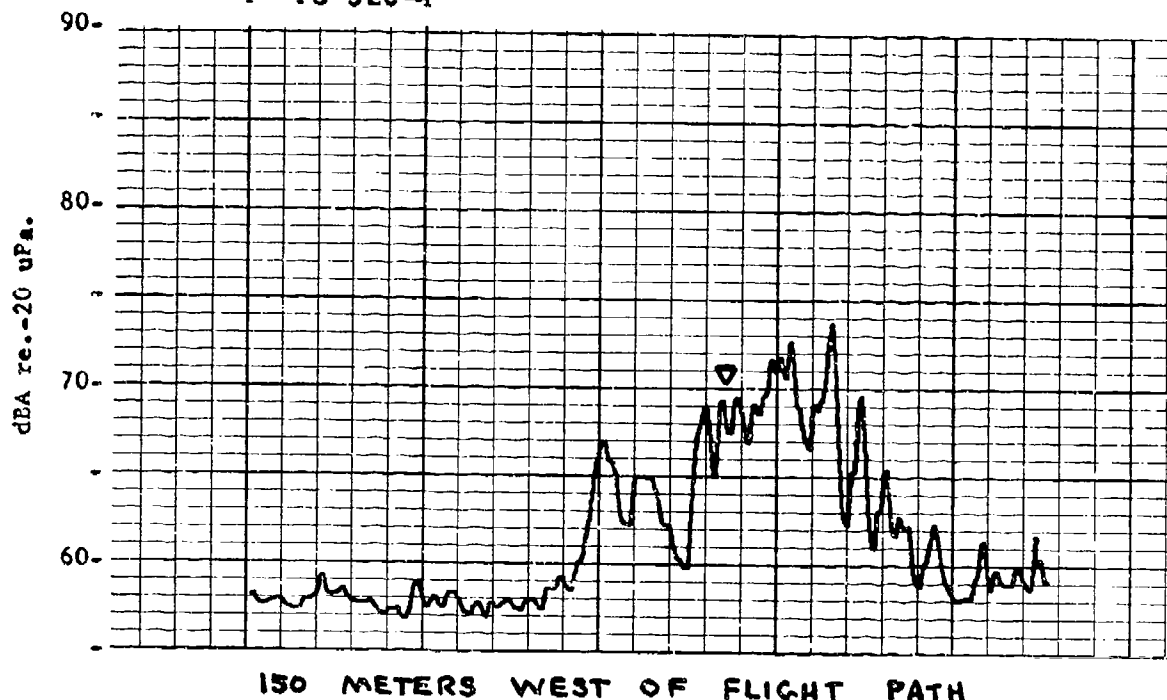
NOISE LEVEL TIME HISTORIES
BELL 206 L HELICOPTER
LEVEL FLYOVER - 70 MPH

RUN 61

TABLE D-IX

10 SEC

▽ = CENTER CROSSING

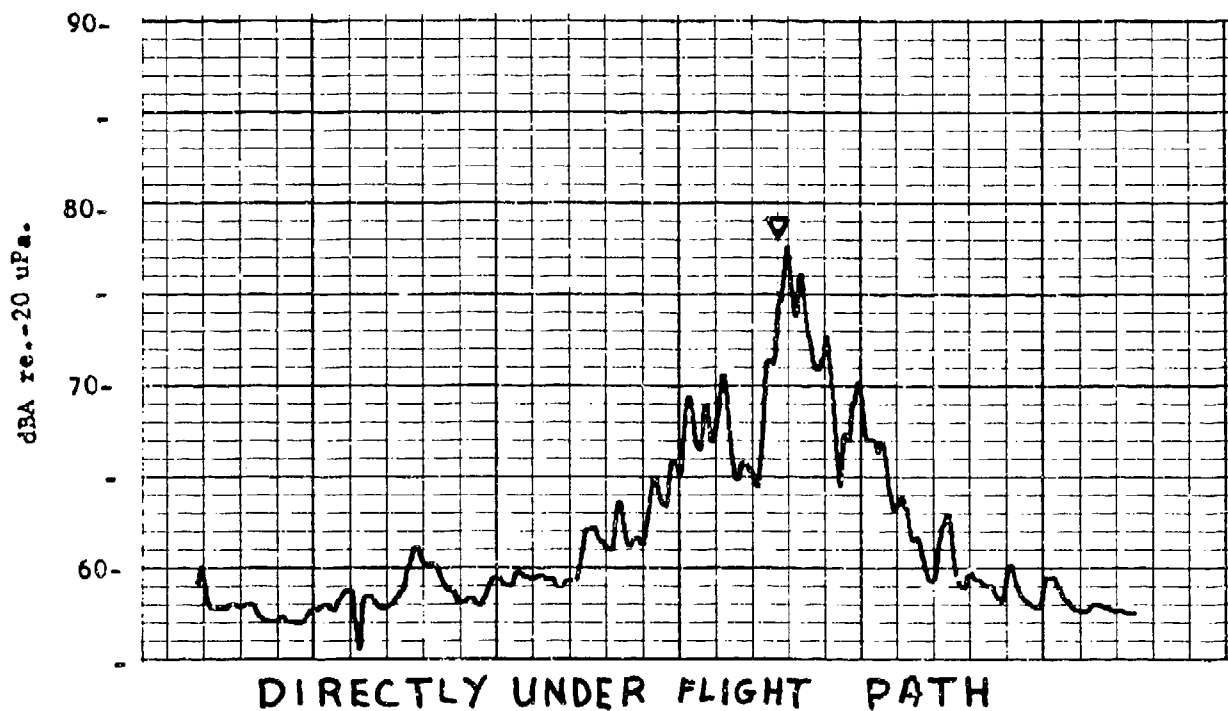
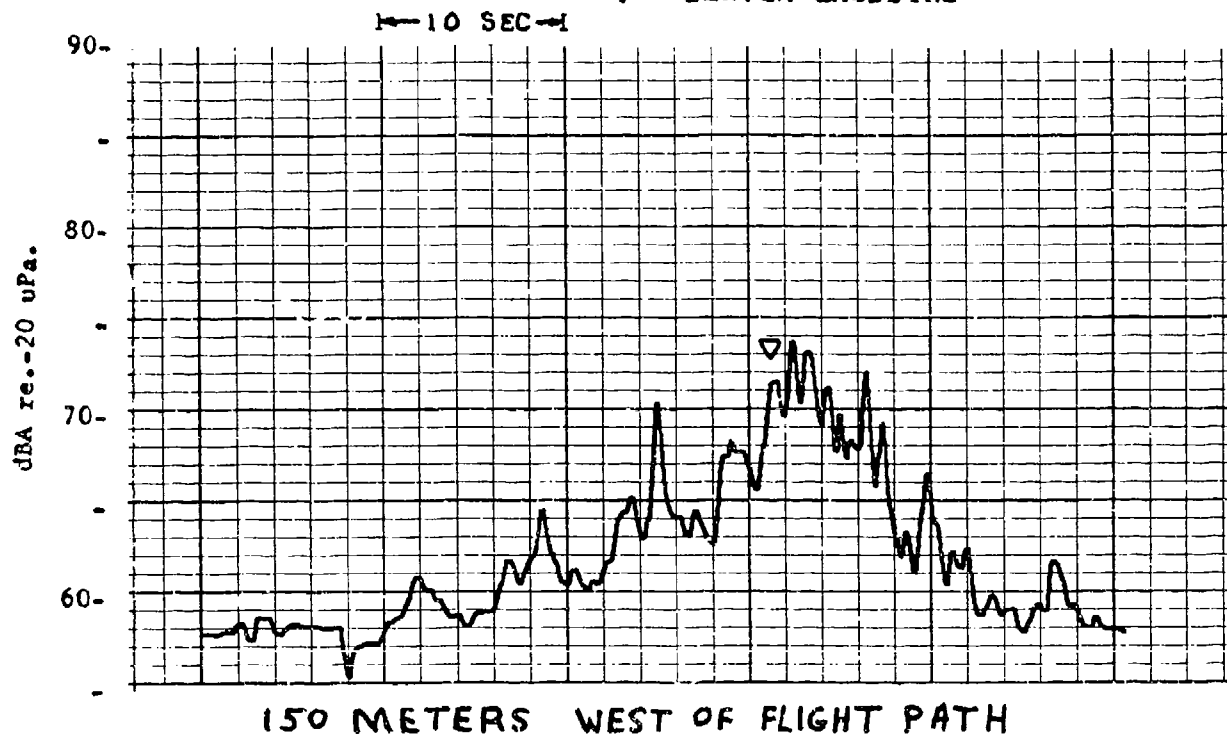


NOISE LEVEL TIME HISTORIES
BELL 206 L HELICOPTER
LEVEL FLYOVER - 106 MPH

RUN 66

TABLE D-IX

▽ = CENTER CROSSING



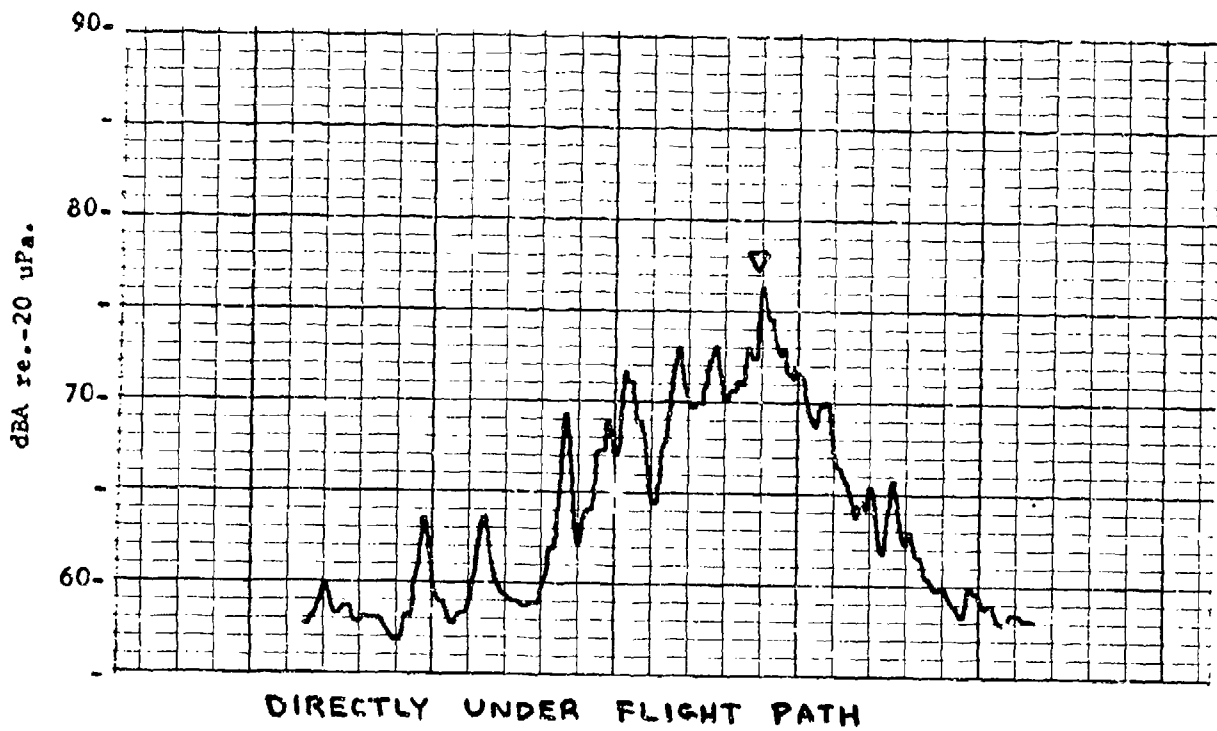
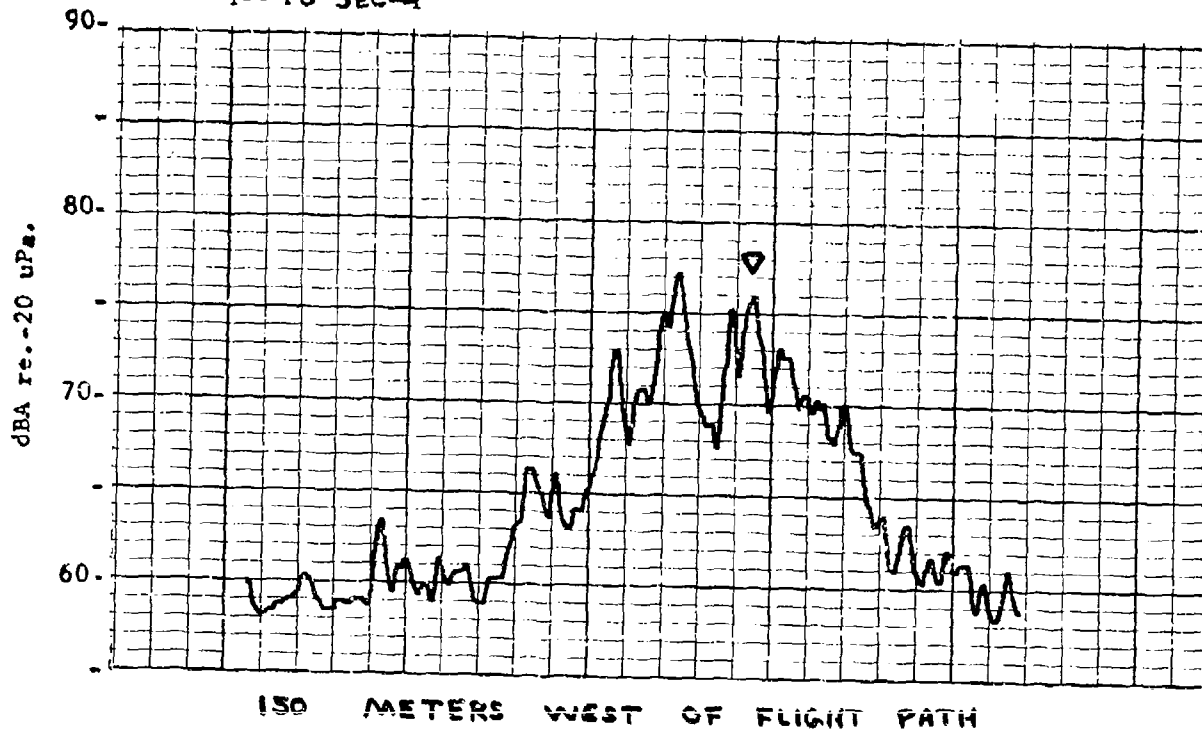
NOISE LEVEL TIME HISTORIES
 BELL 206-L HELICOPTER
 LEVEL FLYOVER 118 MPH

RUN 69

TABLE D-IX.

▽ = CENTER CROSSING

10 SEC

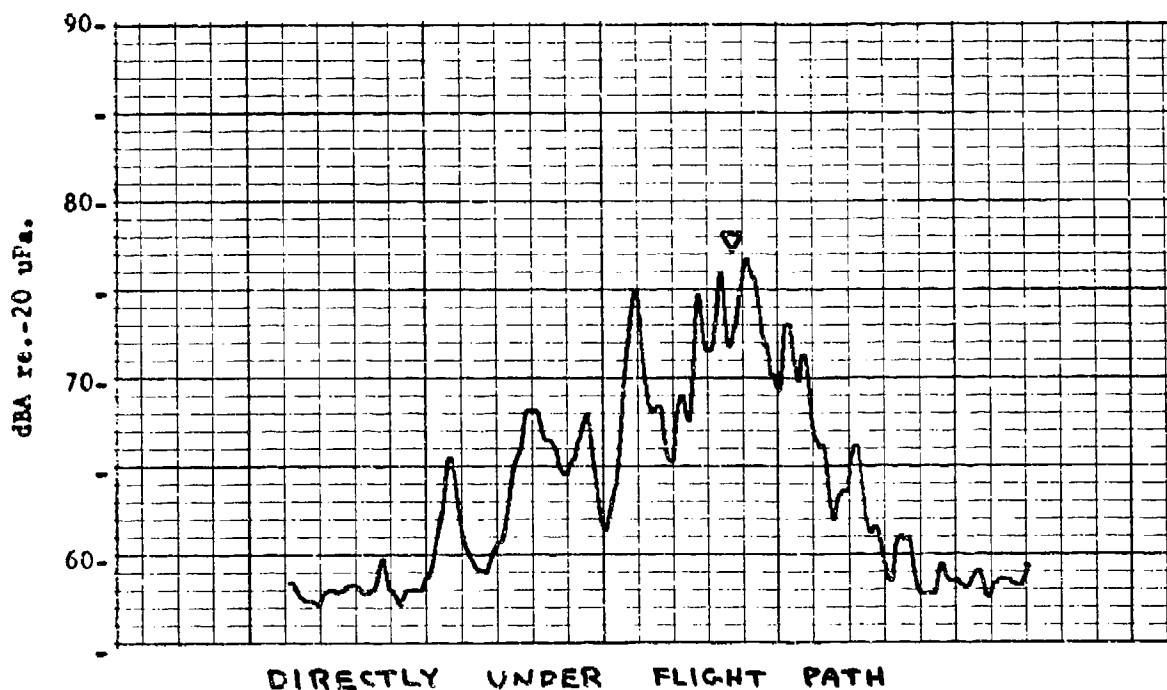
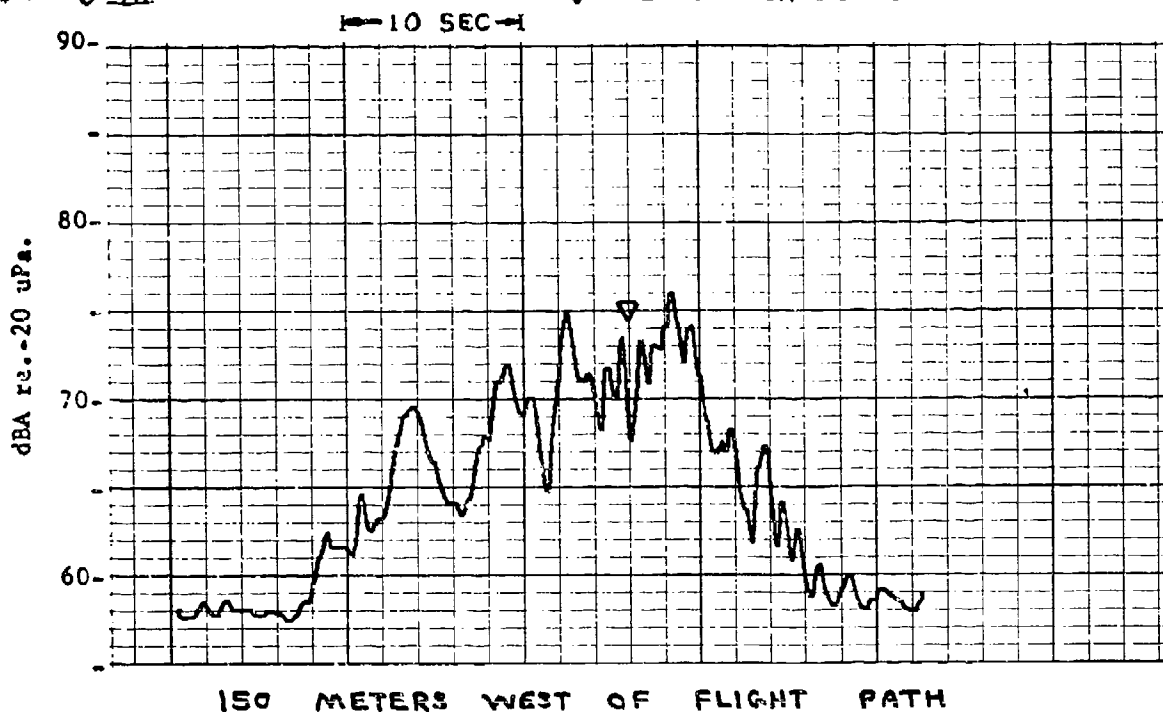


NOISE LEVEL TIME HISTORIES
BELL 206 L HELICOPTER
LEVEL FLYOVER - 130 MPH

RUN 72

TABLE D-IX

▽ = CENTER CROSSING



NOISE LEVEL TIME HISTORIES
BELL 206 L HELICOPTER
LEVEL FLYOVER - 145 MPH

RUN 74

SUPPLEMENTARY

INFORMATION

Corrected

Technical Report Documentation Page

7040561

1. Report No. FAA-RD-77-57, I		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Helicopter Noise Measurements Data Report Volume I Helicopter Models: Hughes 300-C, Hughes 500-C, Bell 47-G, Bell 206-L				5. Report Date April 1977	
7. Author(s) H. C. True, E. J. Rickley, and R. M. Letty				6. Performing Organization Code ARD-550	
9. Performing Organization Name and Address Department of Transportation Federal Aviation Administration Systems Research and Development Service Washington, D.C. 20591				8. Performing Organization Report No.	
12. Sponsoring Agency Name and Address Department of Transportation Federal Aviation Administration Systems Research and Development Service Washington, D.C. 20591				10. Work Unit No. (TRAIS)	
				11. Contract or Grant No.	
				13. Type of Report and Period Covered Data Report	
				14. Sponsoring Agency Code ARD-550	
15. Supplementary Notes Acoustic data acquired and processed into format by "Noise Measurement and Assessment Laboratory" Transportation Systems Center, Cambridge, Massachusetts					
16. Abstract <p>This data report contains the measured noise levels obtained from an FAA Helicopter Noise Test Program. The purpose of this test program was to provide a data base for a possible helicopter noise certification rule. The noise data presented in this two volume report is primarily intended as a means to disseminate the available information. Only the measured data is presented in this report. All FAA/DOT data analysis and comparisons will be presented in a later report which is scheduled for distribution in July, 1977.</p> <p>The eight helicopters tested during this Helicopter Noise Test Program constituted a wide range of gross weights and included participation from several helicopter manufacturers. The helicopter models used in this test program were the Hughes 300C, Hughes 500C, Bell 47-G, Bell 206-L, Bell 212 (UH-1N), Sikorsky S-61 (SH-3A), Sikorsky S-64 "Skycrane" (CH-54B), and Boeing Vertol "Chinook" CH-47C. Volume I contains the measured noise levels obtained from the first four helicopters while Volume II contains the data from the remaining four.</p> <p>The test procedure for each helicopter consisted of obtaining noise data during hover, level flyover, and approach conditions. The data presented in this report consists of time histories, 1/3-octave band spectra, EPNL, PNL, dBA, dBD and OASPL noise levels.</p>					
17. Key Words Helicopter Noise Levels; Hover; Level Flyover; Approach; Glide Slope; Time Histories; EPNL, PNL, dBA, dBD and OASPL.			18. Distribution Statement This document is available to the public through the National Technical Information Service Springfield, Virginia 22151		
19. Security Classif. (of this report) UNCLASSIFIED		20. Security Classif. (of this page) UNCLASSIFIED		21. No. of Pages 386	
				22. Price	